

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 27, 2005, 14:45:41 ; Search time 122 Seconds
(without alignments)
88.765 Million cell updates/sec

Title: US-10-088-417A-1

Perfect score: 132
Sequence: 1 KIAALKQKIASLKQIEDALEYENDALEQ 28

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 794064

Minimum DB seq length: 0
Maximum DB seq length: 28

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_Geneseq_16Dec04:*
1: Geneseqp1980s:*
2: Geneseqp1990s:*
3: Geneseqp2000s:*
4: Geneseqp2001s:*
5: Geneseqp2002s:*
6: Geneseqp2003as:*
7: Geneseqp2003bs:*
8: Geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	132	100.0	28	4	AAB74343 Peptide S
2	132	100.0	28	4	AAB74351 Peptide S
3	132	100.0	28	8	ADM41436 Self-asse
4	129	97.7	28	4	AAB74341 Peptide S
5	129	97.7	28	4	AAB74342 Peptide S
6	85	64.4	28	8	ADM41438 Self-asse
7	82	62.1	28	4	AAB74345 Peptide S
8	80	60.6	27	8	ADM41437 Self-asse
9	76	57.6	28	4	AAB74348 Peptide S
10	76	57.6	28	4	AAB74356 Peptide S
11	75	57.6	28	4	AAB74352 Peptide S
12	75	56.8	28	4	AAB74346 Peptide S
13	75	56.8	28	4	AAB74347 Peptide S
14	74	56.1	28	4	AAB74349 Peptide S
15	70	53.0	28	4	AAB74355 Peptide u
16	70	53.0	28	4	AAB74350 Peptide S
17	57	43.2	28	7	ABR84737 DE novo d
18	54	40.9	28	7	ABR84736 DE novo d
19	52	39.4	17	4	AAB74344 Peptide C
20	52	39.4	24	5	AAB18799 Strp pep
21	52	39.4	24	5	AAB18797 Strp pep
22	52	39.4	25	3	AAY95958 Coiled-co
23	52	39.4	25	3	AAB08381 Peptide u
24	52	39.4	25	3	AAB08382 Peptide u
25	52	39.4	27	5	AAB18788 CVX0270 p

26	51	38.6	28	4	AAB50879 Integrin
27	51	38.6	28	4	AAB59138 Alpha-hel
28	50	37.9	23	3	AAB08388 Peptide u
29	50	37.9	23	6	ADA00699 Protein m
30	46	34.8	18	4	AAB74340 Peptide C
31	46	34.8	24	2	AAB74340 Peptide C
32	46	34.8	24	3	AAB21683 Coiled co
33	46	34.8	24	7	ADD93917 Coiled co
34	46	34.8	28	2	AAR31979 SSP4 poly
35	45	34.1	24	2	AAR11604 Generic i
36	45	34.1	28	7	ABR84735 DE novo d
37	44	33.3	14	2	AAB74343
38	44	33.3	15	2	AAW71415 Peptide f
39	44	33.3	15	2	AAW71416 Peptide f
40	44	33.3	16	2	AAW80531 Beta-shee
41	44	33.3	18	2	AAW80546 Peptide h
42	44	33.3	18	2	AAW71424 Peptide h
43	44	33.3	21	4	AGG65530 Antimicro
44	44	33.3	24	3	AAB21684 Coiled co
45	41	31.1	21	5	ABG78944 Human bre

ALIGNMENTS

RESULT 1
AAB74343
ID AAB74343 standard; peptide; 28 AA.

AC AAB74343;

DT 02-JUL-2001 (first entry)

DE Peptide SAF-plC.

XX Atomic Force Microscopy; AFM.

OS Unidentified.

PN WO200121646-A1.

PD 29-MAR-2001.

PF 18-SEP-2000; 2000WO-GB003576.

PR 17-SEP-1999; 99GB-00022013.

PA (UNSU-) UNIV SUSSEX.

PI Woolfson DN, Walshaw J, Pandya MJ, Colyer J;

DR WPI, 2001-335468/35.

PT New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.

PS Claim 16; Page 26; 45pp; English.

CC The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-plC

XX Sequence 28 AA;

Query Match 100.0%; Score 132; DB 4; Length 28;

Best Local Similarity 100.0%; Pred. No. 2.7e-11;

Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KIAALKQKIASLKQIEDALEYENDALEQ 28

|||||

DB 1 KIAALKQKIASLKQEIADALEYENDALEQ 28

RESULT 2
AAB74351
ID AAB74351 standard; peptide; 28 AA.
AC AAB74351;
DT 02-JUL-2001 (first entry)
DE Peptide SAF-pl.
KW Atomic Force Microscopy; AFM.
XX Unidentified.
OS WO200121646-A1.
PN 29-MAR-2001.
XX 18-SEP-2000; 2000WO-GB003576.
PR 17-SEP-1999; 99GB-00022013.
XX (UYSU-) UNIV SUSSEX.
XX Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
PI WPI; 2001-335468/35.
XX New protein structures with peptide monomer units, useful in Atomic Force
PT Microscopy, purifying biological fluids, promoting tissue repair and
PT tissue engineering, or constructing nanoscale molecular sieves.
XX Claim 16; Page 26; 45pp; English.
XX The present invention relates to a protein structure with several first
CC peptide monomer units arranged in a first strand and several second
CC peptide monomer units arranged in a second strand. The structure is
CC useful in Atomic Force Microscopy and a number of other applications. The
CC present sequence is the peptide monomer unit SAF-pl
XX Sequence 28 AA;
SQ Query Match 100.0%; Score 132; DB 4; Length 28;
Best Local Similarity 100.0%; Pred. No. 2.7e-11;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KIAALKQKIASLKQEIADALEYENDALEQ 28
DB 1 KIAALKQKIASLKQEIADALEYENDALEQ 28

RESULT 4
AAB74341
ID AAB74341 standard; peptide; 28 AA.
AC AAB74341;
DT 02-JUL-2001 (first entry)
DE Peptide SAF-plA.
KW Atomic Force Microscopy; AFM.
XX Unidentified.
OS WO200121646-A1.
PN 29-MAR-2001.
XX 18-SEP-2000; 2000WO-GB003576.
PR 17-SEP-1999; 99GB-00022013.
XX (UYSU-) UNIV SUSSEX.
XX Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
PI WPI; 2001-335468/35.
XX New protein structures with peptide monomer units, useful in Atomic Force
PT Microscopy, purifying biological fluids, promoting tissue repair and
PT tissue engineering, or constructing nanoscale molecular sieves.
XX The present sequence is that of self-assembling peptide fibre (SAF) SAF-
pl. The invention relates to fibre-shaping (fish) peptides ADM41434-
ADM41435 that are capable of interacting with SAFs to form protein
structures. The fish peptides allow morphological changes (branches,
splits, kinks and bends) to be made to protein fibres comprising SAFs. By
incorporating such morphological changes in the protein structures, it is
possible to generate a variety of (nanoscale) protein structures, such as
assemblies in general, including matrix, filter, network, grid and
scaffold structures. Use of the protein structures in the purification of
biological fluids, for assembling cells for cell and tissue engineering,
and in surface engineering procedures is claimed.
XX Sequence 28 AA;
SQ Query Match 100.0%; Score 132; DB 8; Length 28;
Best Local Similarity 100.0%; Pred. No. 2.7e-11;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KIAALKQKIASLKQEIADALEYENDALEQ 28
DB 1 KIAALKQKIASLKQEIADALEYENDALEQ 28

DB 1 KIAALKQKIASLKQEIADALEYENDALEQ 28

RESULT 2
AAB74351
ID AAB74351 standard; peptide; 28 AA.
AC AAB74351;
DT 02-JUL-2001 (first entry)
DE Peptide SAF-pl.
KW Atomic Force Microscopy; AFM.
XX Unidentified.
OS WO200121646-A1.
PN 29-MAR-2001.
XX 18-SEP-2000; 2000WO-GB003576.
PR 17-SEP-1999; 99GB-00022013.
XX (UYSU-) UNIV SUSSEX.
XX Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
PI WPI; 2001-335468/35.
XX New protein structures with peptide monomer units, useful in Atomic Force
PT Microscopy, purifying biological fluids, promoting tissue repair and
PT tissue engineering, or constructing nanoscale molecular sieves.
XX Claim 16; Page 26; 45pp; English.
XX The present invention relates to a protein structure with several first
CC peptide monomer units arranged in a first strand and several second
CC peptide monomer units arranged in a second strand. The structure is
CC useful in Atomic Force Microscopy and a number of other applications. The
CC present sequence is the peptide monomer unit SAF-pl
XX Sequence 28 AA;
SQ Query Match 100.0%; Score 132; DB 4; Length 28;
Best Local Similarity 100.0%; Pred. No. 2.7e-11;
Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 KIAALKQKIASLKQEIADALEYENDALEQ 28
DB 1 KIAALKQKIASLKQEIADALEYENDALEQ 28

RESULT 3
ADM41436
ID ADM41436 standard; peptide; 28 AA.
AC ADM41436;
DT 03-JUN-2004 (first entry)
DE Self-assembling peptide fibre SAF-pl.
KW Fibre-shaping peptide; self-assembling peptide.
XX Synthetic.
OS Key Location/Qualifiers
FH Modified-site 1
FT /note= "N-terminal NH3 moiety"
XX WO2004022584-A1.
PN

XX Claim 16; Page 26; 45pp; English.
 XX
 CC The present invention relates to a protein structure with several first
 CC peptide monomer units arranged in a first strand and several second
 CC peptide monomer units arranged in a second strand. The structure is
 CC useful in Atomic Force Microscopy and a number of other applications. The
 CC present sequence is the peptide monomer unit SAF-pla
 XX
 SQ Sequence 28 AA;
 Query Match 97.7%; Score 129; DB 4; Length 28;
 Best Local Similarity 96.4%; Pred. No. 7e-11;
 Matches 27; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 1 KIAALKQKIASLKQEIDALEYENDALEQ 28
 DB 1 KIAALKQKIASLKQEIDALEYENDALEQ 28
 RESULT 5
 AAB74342
 ID AAB74342 standard; peptide; 28 AA.
 XX
 AC AAB74342;
 XX
 DT 02-JUL-2001 (first entry)
 XX
 DE Peptide SAF-plB.
 XX
 KW Atomic Force Microscopy; AFM.
 XX
 OS Unidentified.
 XX
 FN WO200121646-A1.
 XX
 PD 29-MAR-2001.
 XX
 PF 18-SEP-2000; 2000WO-GB003576.
 XX
 PR 17-SEP-1999; 99GB-00022013.
 XX
 PA (UYSU-) UNIV SUSSEX.
 XX
 PI Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
 XX
 DR WPI; 2001-335468/35.
 XX
 PT New protein structures with peptide monomer units, useful in Atomic Force
 PT Microscopy, purifying biological fluids, promoting tissue repair and
 PT tissue engineering, or constructing nanoscale molecular sieves.
 XX
 PS Disclosure; Page 9; 45pp; English.
 XX
 CC The present invention relates to a protein structure with several first
 CC peptide monomer units arranged in a first strand and several second
 CC peptide monomer units arranged in a second strand. The structure is
 CC useful in Atomic Force Microscopy and a number of other applications. The
 CC present sequence is the peptide monomer unit SAF-plB
 XX
 SQ Sequence 28 AA;
 Query Match 97.7%; Score 129; DB 4; Length 28;
 Best Local Similarity 96.4%; Pred. No. 7e-11;
 Matches 27; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 1 KIAALKQKIASLKQEIDALEYENDALEQ 28
 DB 1 KIAALKQKIASLKQEIDALEYENDALEQ 28
 RESULT 6
 ADM41438

ID ADM41438 standard; peptide; 28 AA.
 XX
 AC ADM41438;
 XX
 DT 03-JUN-2004 (first entry)
 XX
 DE Self-assembling peptide fibre SAF-p2a.
 XX
 KW Fibre-shaping peptide; self-assembling peptide.
 XX
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
 FT Modified-site 1
 FT /note= "N-terminal NH3 moiety"
 XX
 PN WO2004022584-A1.
 XX
 PD 18-MAR-2004.
 XX
 PF 08-SEP-2003; 2003WO-GB003900.
 XX
 PR 06-SEP-2002; 2002GB-00020805.
 XX
 PA (UYSU-) UNIV SUSSEX.
 XX
 PI Woolfson D, Ryadnov MG;
 XX
 DR WPI; 2004-248444/23.
 XX
 PT Novel fiber-shaping peptide comprising hub and several peptide monomer
 PT units, useful for producing protein structure useful in purification of
 PT biological fluids and in surface engineering procedures.
 XX
 PS Example 36; Page 22; 37pp; English.
 XX
 CC The present sequence is that of self-assembling peptide fibre (SAF) SAF-
 CC p2a. The invention relates to fibre-shaping (Fish) peptides ADM41434-
 CC ADM41435 that are capable of interacting with SAFs to form protein
 CC structures. The Fish peptides allow morphological changes (branches,
 CC splits, kinks and bends) to be made to protein fibres comprising SAFs. By
 CC incorporating such morphological changes in the protein fibres, it is
 CC possible to generate a variety of (nanoscale) protein structures, such as
 CC assemblies in general, including matrix, filter, network, grid and
 CC scaffold structures. Use of the protein structures in the purification of
 CC biological fluids, for assembling cells for cell and tissue engineering,
 CC and in surface engineering procedures is claimed.
 XX
 SQ Sequence 28 AA;
 Query Match 64.4%; Score 85; DB 8; Length 28;
 Best Local Similarity 75.0%; Pred. No. 9.5e-05;
 Matches 21; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
 QY 1 KIAALKQKIASLKQEIDALEYENDALEQ 28
 DB 1 KIRRLKQKNARLKQEIAALEYEALEQ 28
 RESULT 7
 AAB74345
 ID AAB74345 standard; peptide; 28 AA.
 XX
 AC AAB74345;
 XX
 DT 02-JUL-2001 (first entry)
 XX
 DE Peptide SAF-p2A.
 XX
 KW Atomic Force Microscopy; AFM.
 XX
 OS Unidentified.
 XX

PN WO200121646-A1.
XX 29-MAR-2001.
XX 18-SEP-2000; 2000WO-GB003576.
XX 17-SEP-1999; 99GB-00022013.
XX (UYSU-) UNIV SUSSEX.
XX Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
XX WPI; 2001-335468/35.
XX New protein structures with peptide monomer units, useful in Atomic Force
PT Microscopy, purifying biological fluids, promoting tissue repair and
PT tissue engineering, or constructing nanoscale molecular sieves.
XX Disclosure; Page 9; 45pp; English.
XX The present invention relates to a protein structure with several first
CC peptide monomer units arranged in a first strand and several second
CC peptide monomer units arranged in a second strand. The structure is
CC useful in Atomic Force Microscopy and a number of other applications. The
CC present sequence is the peptide monomer unit SAF-p2A
XX Sequence 28 AA;
Query Match 62.1%; Score 82; DB 4; Length 28;
Best Local Similarity 75.0%; Pred. No. 0.00025;
Matches 21; Conservative 1; Mismatches 6; Indels 0; Gaps 0;
QY 1 KIAALKQKIASLKQEIADALEYENDALEQ 28
Db 1 KISALKQKIASLKQEIADALEYENDALEQ 28
RESULT 8
ADM41437
ID ADM41437 standard; peptide; 27 AA.
XX ADM41437;
XX 03-JUN-2004 (first entry)
XX Self-assembling peptide fibre (SAF).
XX Fibre-shaping peptide; self-assembling peptide.
XX Synthetic.
XX Key Location/Qualifiers
FT Modified-site 1 /note= "N-terminal NH3 moiety"
FT FT
XX WO2004022584-A1.
XX 18-MAR-2004.
XX 08-SEP-2003; 2003WO-GB003900.
XX 06-SEP-2002; 2002GB-00020805.
XX (UYSU-) UNIV SUSSEX.
XX Woolfson D, Ryadnov MG;
XX WPI; 2004-248444/23.
XX Novel fiber-shaping peptide comprising hub and several peptide monomer
PT units, useful for producing protein structure useful in purification of
PT biological fluids and in surface engineering procedures.
XX

PS Example 30; Page 22; 37pp; English.
XX The present sequence is that of a self-assembling peptide fibre (SAF).
CC The invention relates to fibre-shaping (FISH) peptides ADM41434-ADM41435
CC that are capable of interacting with SAFs to form protein structures. The
CC FISH peptides allow morphological changes (branches, splits, kinks and
CC bends) to be made to protein fibres comprising SAFs. By incorporating
CC such morphological changes in the protein fibres, it is possible to
CC generate a variety of (nanoscale) protein structures, such as assemblies
CC in general, including matrix, filter, network, grid and scaffold
CC structures. Use of the protein structures in the purification of
CC biological fluids, for assembling cells for cell and tissue engineering,
CC and in surface engineering procedures is claimed.
XX Sequence 27 AA;
Query Match 60.6%; Score 80; DB 8; Length 27;
Best Local Similarity 74.1%; Pred. No. 0.00045;
Matches 20; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
QY 2 IAALKQKIASLKQEIADALEYENDALEQ 28
Db 1 IRRLLQKNARLKQEIADALEYENDALEQ 27
RESULT 9
AAB74348
ID AAB74348 standard; peptide; 28 AA.
XX AAB74348;
XX 02-JUL-2001 (first entry)
XX Peptide SAF-p2D.
XX Atomic Force Microscopy; AFM.
XX Unidentified.
XX WO200121646-A1.
XX 29-MAR-2001.
XX 18-SEP-2000; 2000WO-GB003576.
XX 17-SEP-1999; 99GB-00022013.
XX (UYSU-) UNIV SUSSEX.
XX Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
XX WPI; 2001-335468/35.
XX New protein structures with peptide monomer units, useful in Atomic Force
PT Microscopy, purifying biological fluids, promoting tissue repair and
PT tissue engineering, or constructing nanoscale molecular sieves.
XX Disclosure; Page 9; 45pp; English.
XX The present invention relates to a protein structure with several first
CC peptide monomer units arranged in a first strand and several second
CC peptide monomer units arranged in a second strand. The structure is
CC useful in Atomic Force Microscopy and a number of other applications. The
CC present sequence is the peptide monomer unit SAF-p2D
XX Sequence 28 AA;
Query Match 57.6%; Score 76; DB 4; Length 28;
Best Local Similarity 71.4%; Pred. No. 0.0017;
Matches 20; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
QY 1 KIAALKQKIASLKQEIADALEYENDALEQ 28
Db 1 IRRLLQKNARLKQEIADALEYENDALEQ 28

XX	17-SEP-1999; 99GB-00022013.
PR	(UYSU-) UNIV SUSSEX.
XX	
PA	Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
XX	
PI	WPI; 2001-335468/35.
XX	
DR	New protein structures with peptide monomer units, useful in Atomic Force
XX	Microscopy, purifying biological fluids, promoting tissue repair and
PT	tissue engineering, or constructing nanoscale molecular sieves.
PT	
XX	Claim 16; Page 26; 45pp; English.
PS	
XX	The present invention relates to a protein structure with several first
CC	peptide monomer units arranged in a first strand and several second
CC	peptide monomer units arranged in a second strand. The structure is
CC	useful in Atomic Force Microscopy and a number of other applications. The
CC	present sequence is the peptide monomer unit SAF-p2
XX	
XX	Sequence 28 AA;
XX	
XX	Query Match 57.6%; Score 76; DB 4; Length 28;
XX	Best Local Similarity 71.4%; Pred. No. 0.0017;
XX	Matches 20; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
Qy	1 KIRALKKOKIASLKOEIDAILEVENDALEQ 28
DB	1 KIRALKKAKNAHLKOEIAALQOEIAALEQ 28
DB	
XX	
XX	RESULT 12
XX	AAB74346
ID	AAB74346 standard; peptide; 28 AA.
XX	
AC	AAB74346;
XX	
DT	02-JUL-2001 (first entry)
XX	
DE	Peptide SAF-p2B.
XX	
KW	Atomic Force Microscopy; AFM.
XX	
OS	Unidentified.
XX	
PN	WO200121646-A1.
XX	
PD	29-MAR-2001.
XX	
PF	18-SEP-2000; 2000WO-GB003576.
XX	
XX	17-SEP-1999; 99GB-00022013.
PR	
XX	(UYSU-) UNIV SUSSEX.
PA	
XX	
PI	Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
XX	
XX	WPI; 2001-335468/35.
DR	
XX	New protein structures with peptide monomer units, useful in Atomic Force
PT	Microscopy, purifying biological fluids, promoting tissue repair and
PT	tissue engineering, or constructing nanoscale molecular sieves.
PT	
XX	Disclosure; Page 9; 45pp; English.
PS	
XX	The present invention relates to a protein structure with several first
CC	peptide monomer units arranged in a first strand and several second
CC	peptide monomer units arranged in a second strand. The structure is
CC	useful in Atomic Force Microscopy and a number of other applications. The
CC	present sequence is the peptide monomer unit SAF-p2B
XX	
XX	Sequence 28 AA;
XX	

Query Match 56.8%; Score 75; DB 4; Length 28;
Best Local Similarity 71.4%; Pred. No. 0.0024;
Matches 20; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 KIAALKQKIASLKQEIADALEVENDALEQ 28
DB 1 KIRALKKWNHLKQEIADALEVENDALEQ 28

RESULT 13
AAB74347
ID AAB74347 standard; peptide; 28 AA.
XX AC AAB74347;
XX DT 02-JUL-2001 (first entry)
XX DE Peptide SAF-p2C.
XX KW Atomic Force Microscopy; AFM.
XX OS Unidentified.
XX PN WO200121646-A1.
XX PD 29-MAR-2001.
XX PF 18-SEP-2000; 2000WO-GB003576.
XX PR 17-SEP-1999; 99GB-00022013.
XX PA (UYSU-) UNIV SUSSEX.
XX PI Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
XX DR WPI; 2001-335468/35.
XX CC New protein structures with peptide monomer units, useful in Atomic Force
PT Microscopy, purifying biological fluids, promoting tissue repair and
PT tissue engineering, or constructing nanoscale molecular sieves.
XX PS Claim 16; Page 26; 45pp; English.
XX CC The present invention relates to a protein structure with several first
CC peptide monomer units arranged in a first strand and several second
CC peptide monomer units arranged in a second strand. The structure is
CC useful in Atomic Force Microscopy and a number of other applications. The
CC present sequence is the peptide monomer unit SAF-p2C
XX SQ Sequence 28 AA;
Query Match 56.8%; Score 75; DB 4; Length 28;
Best Local Similarity 71.4%; Pred. No. 0.0024;
Matches 20; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 KIAALKQKIASLKQEIADALEVENDALEQ 28
DB 1 KIRALKKWNHLKQEIADALEVENDALEQ 28

RESULT 14
AAB74349
ID AAB74349 standard; peptide; 28 AA.
XX AC AAB74349;
XX DT 02-JUL-2001 (first entry)
XX DE Peptide SAF-p2E.
XX KW Atomic Force Microscopy; AFM.
XX

OS Unidentified.
XX WO200121646-A1.
XX PD 29-MAR-2001.
XX PF 18-SEP-2000; 2000WO-GB003576.
XX PR 17-SEP-1999; 99GB-00022013.
XX PA (UYSU-) UNIV SUSSEX.
XX PI Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
XX DR WPI; 2001-335468/35.
XX CC New protein structures with peptide monomer units, useful in Atomic Force
PT Microscopy, purifying biological fluids, promoting tissue repair and
PT tissue engineering, or constructing nanoscale molecular sieves.
XX PS Disclosure; Page 9; 45pp; English.
XX CC The present invention relates to a protein structure with several first
CC peptide monomer units arranged in a first strand and several second
CC peptide monomer units arranged in a second strand. The structure is
CC useful in Atomic Force Microscopy and a number of other applications. The
CC present sequence is the peptide monomer unit SAF-p2E
XX SQ Sequence 28 AA;
Query Match 56.1%; Score 74; DB 4; Length 28;
Best Local Similarity 71.4%; Pred. No. 0.0033;
Matches 20; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 1 KIAALKQKIASLKQEIADALEVENDALEQ 28
DB 1 KIRALKKWNHLKQEIADALEVENDALEQ 28

RESULT 15
AAB74355
ID AAB74355 standard; peptide; 28 AA.
XX AC AAB74355;
XX DT 02-JUL-2001 (first entry)
XX DE Peptide used to form blunt-ended heterodimers.
XX KW Atomic Force Microscopy; AFM.
XX OS Unidentified.
XX PN WO200121646-A1.
XX PD 29-MAR-2001.
XX PF 18-SEP-2000; 2000WO-GB003576.
XX PR 17-SEP-1999; 99GB-00022013.
XX PA (UYSU-) UNIV SUSSEX.
XX PI Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
XX DR WPI; 2001-335468/35.
XX CC New protein structures with peptide monomer units, useful in Atomic Force
PT Microscopy, purifying biological fluids, promoting tissue repair and
PT tissue engineering, or constructing nanoscale molecular sieves.
XX PS Disclosure; Fig 8; 45pp; English.
XX

CC The present invention relates to a protein structure with several first
CC peptide monomer units arranged in a first strand and several second
CC peptide monomer units arranged in a second strand. The structure is
CC useful in Atomic Force Microscopy and a number of other applications. The
CC present sequence is a peptide used to form blunt-ended heterodimers
XX

SQ Sequence 28 AA;

Query Match 53.0%; Score 70; DB 4; Length 28;
Best Local Similarity 100.0%; Pred. No. 0.012;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 EIDALEYENDALEQ 28
|||
Db 1 EIDALEYENDALEQ 14

Search completed: April 27, 2005, 15:02:15
Job time : 124 secs

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OM protein - protein search, using sw model

Run on: April 27, 2005, 15:02:43 ; Search time 89.5 Seconds
(without alignments)
104.113 Million cell updates/sec

Title: US-10-088-417A-1

Perfect score: 132

Sequence: 1 KIAALKQKIASLKQIDAILEVENDALEQ 28

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1424015 seqs, 332791073 residues

Total number of hits satisfying chosen parameters: 334731

Minimum DB seq length: 0

Maximum DB seq length: 28

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

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- 2: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*
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- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep:*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep:*
- 16: /cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep:*
- 17: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep:*
- 18: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep:*
- 19: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep:*
- 20: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	57	43.2	28	14	US-10-360-053-23
2	54	40.9	28	14	US-10-360-053-22
3	52	39.4	27	10	US-09-882-774-7
4	51	38.6	28	9	US-09-320-907B-6
5	51	38.6	28	15	US-10-447-292-6
6	50	37.9	23	10	US-09-259-658-59
7	46	34.8	24	14	US-10-338-083-19
8	46	34.8	24	16	US-10-611-399-19
9	46	34.8	24	17	US-10-794-751-19
10	45	34.1	28	14	US-10-360-053-21
11	44	33.3	24	14	US-10-338-083-20
12	44	33.3	24	16	US-10-611-399-20
13	44	33.3	24	17	US-10-794-751-20

14	44	33.3	26	16	US-10-630-926-7	Sequence 7, Appli
15	41	31.1	21	9	US-09-834-759-534	Sequence 534, App
16	41	31.1	21	13	US-10-007-805-534	Sequence 534, App
17	41	31.1	21	13	US-10-007-805-587	Sequence 587, App
18	41	31.1	21	14	US-10-076-622-534	Sequence 534, App
19	41	31.1	21	14	US-10-076-622-587	Sequence 587, App
20	41	31.1	21	14	US-10-124-805-534	Sequence 534, App
21	41	31.1	21	14	US-10-124-805-587	Sequence 587, App
22	40	30.3	28	14	US-10-023-066A-70	Sequence 70, Appl
23	40	30.3	28	16	US-10-804-678-70	Sequence 70, Appl
24	39	29.5	27	9	US-09-887-855-8	Sequence 8, Appli
25	39	29.5	27	9	US-09-852-331-4	Sequence 4, Appli
26	39	29.5	27	10	US-09-876-790-12	Sequence 12, Appl
27	39	29.5	27	10	US-09-365-940-24	Sequence 24, Appl
28	39	29.5	27	14	US-10-158-238-13	Sequence 13, Appl
29	39	29.5	27	14	US-10-164-080-4	Sequence 4, Appli
30	39	29.5	27	14	US-10-242-212-4	Sequence 4, Appli
31	39	29.5	27	14	US-10-239-327-4	Sequence 4, Appli
32	39	29.5	27	14	US-10-200-242-24	Sequence 24, Appl
33	39	29.5	27	14	US-10-376-406-4	Sequence 4, Appli
34	39	29.5	27	15	US-10-200-242-24	Sequence 24, Appl
35	39	29.5	27	15	US-10-664-456-29	Sequence 29, Appl
36	39	29.5	27	15	US-10-652-244-14	Sequence 14, Appl
37	39	29.5	27	16	US-10-154-670-11	Sequence 11, Appl
38	39	29.5	27	17	US-10-888-779-12	Sequence 12, Appl
39	39	29.5	27	17	US-10-888-867-12	Sequence 12, Appl
40	39	29.5	27	17	US-10-888-780-12	Sequence 12, Appl
41	39	29.5	27	17	US-10-888-931-12	Sequence 12, Appl
42	38.5	29.2	25	16	US-10-416-249-163	Sequence 163, App
43	38	28.8	25	14	US-10-059-720-2	Sequence 2, Appli
44	38	28.8	26	14	US-10-059-720-3	Sequence 3, Appli
45	37	28.0	20	14	US-10-076-622-597	Sequence 597, App

ALIGNMENTS

RESULT 1

US-10-360-053-23
; Sequence 23, Application US/10360053
; Publication No: US20030170230A1
; GENERAL INFORMATION:
; APPLICANT: Caterer, Nigel
; APPLICANT: Utenthal, Lars O
; APPLICANT: Nielsen, Rasmus W
; TITLE OF INVENTION: Compositions and Methods for Assembly and Stabilization of Antipeptide Regi
; TITLE OF INVENTION: Fragments via Antiparallel Heterogeneous Coiled-Coil Peptide Regi
; TITLE OF INVENTION: Thereof
; FILE REFERENCE: IMX-0028
; CURRENT APPLICATION NUMBER: US/10/360,053
; CURRENT FILING DATE: 2003-02-05
; PRIOR APPLICATION NUMBER: US60/354,376
; PRIOR FILING DATE: 2002-02-05
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 23
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-360-053-23

Query Match 43.2%; Score 57; DB 14; Length 28;

Best Local Similarity 60.0%; Pred. No. 1.5; Mismatches 5; Indels 0; Gaps 0;

Matches 12; Conservative 3; Indels 0; Gaps 0;

QY 1 KIAALKQKIASLKQIDAILE 20

Db 5 KQAAIKNEIAIKQDAIAIE 24

RESULT 2

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US-10-360-053-22
; Sequence 22, Application US/10360053
; Publication No. US20030170230A1
; GENERAL INFORMATION:
; APPLICANT: Caterer, Nigel
; APPLICANT: Uttenenthal, Lars O
; APPLICANT: Nielsen, Rasmus W
; TITLE OF INVENTION: Compositions and Methods for Assembly and Stabilization of Antibio
; TITLE OF INVENTION: Fragments via Antiparallel Heterogeneous Coiled-Coil Peptide Regi
; TITLE OF INVENTION: Thereof
; FILE REFERENCE: IMX-0028
; CURRENT APPLICATION NUMBER: US/10/360,053
; CURRENT FILING DATE: 2003-02-05
; PRIOR APPLICATION NUMBER: US60/354,376
; PRIOR FILING DATE: 2002-02-05
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-360-053-22
Query Match 40.9%; Score 54; DB 14; Length 28;
Best Local Similarity 55.0%; Pred. No. 3.8;
Matches 11; Conservative 6; Mismatches 3; Indels 0; Gaps 0;

QY 1 KIAALKOKIASLKQEIADALE 20
Db 5 KIAAEEKIAQEEIEAQQE 24

RESULT 3
US-09-882-774-7
; Sequence 7, Application US/09882774
; Publication No. US20030021795A1
; GENERAL INFORMATION:
; APPLICANT: Houston, Michael E.
; APPLICANT: Hodges, Robert
; TITLE OF INVENTION: Use of Coiled-Coil Structural Scaffold to Generate
; TITLE OF INVENTION: Structure-Specific Peptides
; FILE REFERENCE: 003592-007
; CURRENT APPLICATION NUMBER: US/09/882,774
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,892
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/213,387
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 7
; LENGTH: 27
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: hybrid sequence
; NAME/KEY: MOD RES
; LOCATION: (2)
; OTHER INFORMATION: Nle
US-09-882-774-7
Query Match 39.4%; Score 52; DB 10; Length 27;
Best Local Similarity 54.5%; Pred. No. 6.6;
Matches 12; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 1 KIAALKOKIASLKQEIADALEYE 22
Db 4 EIEALKKIEELSDKIDLEKE 25

RESULT 4

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US-09-320-907B-6
; Sequence 6, Application US/09320907B
; Publication No. US20020198360A1
; GENERAL INFORMATION:
; APPLICANT: GINSBERG, MARK H.
; APPLICANT: PFAFF, MARTIN
; TITLE OF INVENTION: STRUCTURAL MODELS FOR CYTOPLASMIC DOMAINS OF
; TITLE OF INVENTION: TRANSMEMBRANE RECEPTORS
; FILE REFERENCE: SRI-0006
; CURRENT APPLICATION NUMBER: US/09/320,907B
; CURRENT FILING DATE: 1999-05-27
; PRIOR APPLICATION NUMBER: 09/187,236
; PRIOR FILING DATE: 1998-11-05
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-09-320-907B-6
Query Match 38.6%; Score 51; DB 9; Length 28;
Best Local Similarity 40.7%; Pred. No. 9.2;
Matches 11; Conservative 10; Mismatches 6; Indels 0; Gaps 0;

QY 1 KIAALKOKIASLKQEIADALEYENDALE 27
Db 1 KLEALEGRDLDALEKLEALEKGLDALE 27

RESULT 5
US-10-447-292-6
; Sequence 6, Application US/10447292
; Publication No. US20030224453A1
; GENERAL INFORMATION:
; APPLICANT: GINSBERG, MARK H.
; APPLICANT: PFAFF, MARTIN
; TITLE OF INVENTION: STRUCTURAL MODELS FOR CYTOPLASMIC DOMAINS OF
; TITLE OF INVENTION: TRANSMEMBRANE RECEPTORS
; FILE REFERENCE: SRI-0006
; CURRENT APPLICATION NUMBER: US/10/447,292
; CURRENT FILING DATE: 2003-05-27
; PRIOR APPLICATION NUMBER: US/09/320,907B
; PRIOR FILING DATE: 1999-05-27
; PRIOR APPLICATION NUMBER: 09/187,236
; PRIOR FILING DATE: 1998-11-05
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:Synthetic
US-10-447-292-6
Query Match 38.6%; Score 51; DB 15; Length 28;
Best Local Similarity 40.7%; Pred. No. 9.2;
Matches 11; Conservative 10; Mismatches 6; Indels 0; Gaps 0;

QY 1 KIAALKOKIASLKQEIADALEYENDALE 27
Db 1 KLEALEGRDLDALEKLEALEKGLDALE 27

RESULT 6
US-09-259-658-59
; Sequence 59, Application US/09259658
; Publication No. US20030032054A1
; GENERAL INFORMATION:
; APPLICANT: Colyer

```

APPLICANT: Craig
APPLICANT: Maschio
APPLICANT: Mezna
TITLE OF INVENTION: Compositions And Methods For Monitoring The
FILE REFERENCE: colyer 4256/79245
CURRENT APPLICATION NUMBER: US/09/259,658
CURRENT FILING DATE: 1999-02-26
NUMBER OF SEQ ID NOS: 59
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 59
LENGTH: 23
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: peptide used to assay geranylgeranyl transferase
OTHER INFORMATION: activity.
US-09-259-658-59

Query Match 37.9%; Score 50; DB 10; Length 23;
Best Local Similarity 75.0%; Pred. No. 10;
Matches 12; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

Qy 1 KIAALKQKIASLKQEI 16
Db 7 KIAQLKQKNACLKQKI 22

RESULT 7

US-10-338-083-19
Sequence 19, Application US/10338083
Publication No. US20030166559A1

GENERAL INFORMATION:

APPLICANT: Desjarlais, John R.
APPLICANT: Tansey, Malu Lourdes G.
APPLICANT: Dahiyat, Bassil I.
TITLE OF INVENTION: Dominant Negative Proteins and Methods Thereof
FILE REFERENCE: A-71273-2

CURRENT APPLICATION NUMBER: US/10/338,083

CURRENT FILING DATE: 2003-01-16

PRIOR APPLICATION NUMBER: US 60/345,805

PRIOR FILING DATE: 2002-01-04

PRIOR APPLICATION NUMBER: US 60/373,453

PRIOR FILING DATE: 2002-04-17

NUMBER OF SEQ ID NOS: 23

SOFTWARE: PatentIn version 3.2

SEQ ID NO 19

LENGTH: 24

TYPE: PRT

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: coiled-coil motif

US-10-338-083-19

Query Match 34.8%; Score 46; DB 14; Length 24;
Best Local Similarity 41.7%; Pred. No. 34;
Matches 10; Conservative 8; Mismatches 6; Indels 0; Gaps 0;

Qy 3 AALKQKIASLKQEI DALEYENDAL 26
Db 1 AALESEVSASLESEVAAL 24

RESULT 8

US-10-611-399-19
Sequence 19, Application US/10611399
Publication No. US20040170602A1

GENERAL INFORMATION:

APPLICANT: Desjarlais, John R.

APPLICANT: Tansey, Malu Lourdes G.

APPLICANT: Dahiyat, Bassil I.

TITLE OF INVENTION: DOMINANT NEGATIVE PROTEINS AND METHODS THEREOF

FILE REFERENCE: A-71273-3
CURRENT APPLICATION NUMBER: US/10/611,399
CURRENT FILING DATE: 2003-07-01
PRIOR APPLICATION NUMBER: US 10/338,083
PRIOR FILING DATE: 2003-01-06
PRIOR APPLICATION NUMBER: US 60/345,805
PRIOR FILING DATE: 2002-01-04
PRIOR APPLICATION NUMBER: US 60/373,453
PRIOR FILING DATE: 2002-04-17
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn version 3.2
SEQ ID NO 19
LENGTH: 24
TYPE: PRT
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: coiled-coil motif
US-10-611-399-19

Query Match 34.8%; Score 46; DB 16; Length 24;
Best Local Similarity 41.7%; Pred. No. 34;
Matches 10; Conservative 8; Mismatches 6; Indels 0; Gaps 0;

Qy 3 AALKQKIASLKQEI DALEYENDAL 26
Db 1 AALESEVSASLESEVAAL 24

RESULT 9

US-10-794-751-19

Sequence 19, Application US/10794751
Publication No. US20050048626A1

GENERAL INFORMATION:

APPLICANT: Desjarlais, John R.

APPLICANT: Thomason, Adam Read

APPLICANT: Zhukovsky, Eugene Alexander

TITLE OF INVENTION: BAFF VARIANTS AND METHODS THEREOF

FILE REFERENCE: A-72175-1

CURRENT APPLICATION NUMBER: US/10/794,751

CURRENT FILING DATE: 2004-03-05

PRIOR APPLICATION NUMBER: US 10/338,083

PRIOR FILING DATE: 2003-01-06

PRIOR APPLICATION NUMBER: US 60/452,707

PRIOR FILING DATE: 2003-03-07

PRIOR APPLICATION NUMBER: US 60/482,081

PRIOR FILING DATE: 2003-06-23

PRIOR APPLICATION NUMBER: US 60/523,880

PRIOR FILING DATE: 2003-11-20

PRIOR APPLICATION NUMBER: US 60/528,104

PRIOR FILING DATE: 2003-12-08

NUMBER OF SEQ ID NOS: 23

SOFTWARE: PatentIn version 3.3

SEQ ID NO 19

LENGTH: 24

TYPE: PRT

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: coiled-coil motif

US-10-794-751-19

Query Match 34.8%; Score 46; DB 17; Length 24;
Best Local Similarity 41.7%; Pred. No. 34;
Matches 10; Conservative 8; Mismatches 6; Indels 0; Gaps 0;

Qy 3 AALKQKIASLKQEI DALEYENDAL 26
Db 1 AALESEVSASLESEVAAL 24

RESULT 10

US-10-360-053-21
Sequence 21, Application US/10360053
Publication No. US20030170230A1

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; GENERAL INFORMATION:
; APPLICANT: Caterer, Nigel
; APPLICANT: Utenthal, Lars O
; APPLICANT: Nielsen, Rasmus W
; TITLE OF INVENTION: Compositions and Methods for Assembly and Stabilization of Antibody
; TITLE OF INVENTION: Fragments via Antiparallel Heterogeneous Coiled-Coil Peptide Regi
; TITLE OF INVENTION: Thereof
; FILE REFERENCE: IMX-0028
; CURRENT APPLICATION NUMBER: US/10/360,053
; CURRENT FILING DATE: 2003-02-05
; PRIOR APPLICATION NUMBER: US60/354,376
; PRIOR FILING DATE: 2002-02-05
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 21
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-360-053-21

Query Match 34.1%; Score 45; DB 14; Length 28;
Best Local Similarity 56.2%; Pred. No. 55;
Matches 9; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 1 KIAALKQKIASLKQEI 16
Db 12 EIAAIKDKIAAIKEYI 27

RESULT 11
US-10-338-083-20
; Sequence 20, Application US/10338083
; Publication No. US20030166559A1
; GENERAL INFORMATION:
; APPLICANT: Desjarlais, John R.
; APPLICANT: Tansey, Malu Lourdes G.
; APPLICANT: Dahiyat, Bassil I.
; TITLE OF INVENTION: Dominant Negative Proteins and Methods Thereof
; FILE REFERENCE: A-71273-2
; CURRENT APPLICATION NUMBER: US/10/338,083
; CURRENT FILING DATE: 2003-01-16
; PRIOR APPLICATION NUMBER: US 60/345,805
; PRIOR FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: US 60/373,453
; PRIOR FILING DATE: 2002-04-17
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 20
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: coiled-coil motif
US-10-338-083-20

Query Match 33.3%; Score 44; DB 14; Length 24;
Best Local Similarity 44.4%; Pred. No. 62;
Matches 8; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

QY 1 KIAALKQKIASLKQEI 18
Db 7 KLSAVKSKLASVSKLAA 24

RESULT 12
US-10-611-399-20
; Sequence 20, Application US/10611399
; Publication No. US20040170602A1
; GENERAL INFORMATION:
; APPLICANT: Desjarlais, John R.
; APPLICANT: Tansey, Malu Lourdes G.

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; APPLICANT: Dahiyat, Bassil I.
; TITLE OF INVENTION: DOMINANT NEGATIVE PROTEINS AND METHODS THEREOF
; FILE REFERENCE: A-71273-3
; CURRENT APPLICATION NUMBER: US/10/611,399
; CURRENT FILING DATE: 2003-07-01
; PRIOR APPLICATION NUMBER: US 10/338,083
; PRIOR FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US 60/345,805
; PRIOR FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: US 60/373,453
; PRIOR FILING DATE: 2002-04-17
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 20
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: coiled-coil motif
US-10-611-399-20

Query Match 33.3%; Score 44; DB 16; Length 24;
Best Local Similarity 44.4%; Pred. No. 62;
Matches 8; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

QY 1 KIAALKQKIASLKQEI 18
Db 7 KLSAVKSKLASVSKLAA 24

RESULT 13
US-10-794-751-20
; Sequence 20, Application US/10794751
; Publication No. US20050048626A1
; GENERAL INFORMATION:
; APPLICANT: Desjarlais, John R.
; APPLICANT: Thomason, Adam Read
; APPLICANT: Zhukovsky, Eugene Alexander
; TITLE OF INVENTION: BAFF VARIANTS AND METHODS THEREOF
; FILE REFERENCE: A-72175-1
; CURRENT APPLICATION NUMBER: US/10/794,751
; CURRENT FILING DATE: 2004-03-05
; PRIOR APPLICATION NUMBER: US 10/338,083
; PRIOR FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US 60/452,707
; PRIOR FILING DATE: 2003-03-07
; PRIOR APPLICATION NUMBER: US 60/482,081
; PRIOR FILING DATE: 2003-06-23
; PRIOR APPLICATION NUMBER: US 60/523,880
; PRIOR FILING DATE: 2003-11-20
; PRIOR APPLICATION NUMBER: US 60/528,104
; PRIOR FILING DATE: 2003-12-08
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 20
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: coiled-coil motif
US-10-794-751-20

Query Match 33.3%; Score 44; DB 17; Length 24;
Best Local Similarity 44.4%; Pred. No. 62;
Matches 8; Conservative 7; Mismatches 3; Indels 0; Gaps 0;

QY 1 KIAALKQKIASLKQEI 18
Db 7 KLSAVKSKLASVSKLAA 24

RESULT 14
US-10-630-926-7

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; Sequence 7, Application US/10630926
; Publication No. US20040194160A1
; GENERAL INFORMATION:
; APPLICANT: RICCARDI, Carlo
; TITLE OF INVENTION: INTRACELLULAR MODULATORS OF APOPTIC CELL
; DEATH PATHWAYS
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
; STREET: 624 Ninth Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20001
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/630,926
; FILING DATE: 31-Jul-2003
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/403,861A
; FILING DATE: 11-Feb-2000
; APPLICATION NUMBER: PCT/EP98/02490
; FILING DATE: 27-APR-1998
; APPLICATION NUMBER: EP 97107033.9
; FILING DATE: 28-APR-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: YUN, Allen C.
; REGISTRATION NUMBER: 37,971
; REFERENCE/DOCKET NUMBER: RICCARDI=1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 26 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-10-630-926-7

Query Match 33.3%; Score 44; DB 16; Length 26;
Best Local Similarity 43.5%; Pred. No. 68;
Matches 10; Conservative 5; Mismatches 8; Indels 0; Gaps 0;

Qy 5 LKQKIASLKEIDALEYENDALE 27
Db 1 LKEQIKELIEKNSQLEQENDLLK 23

RESULT 15
US-09-834-759-534
; Sequence 534, Application US/09834759
; Publication No. US20020085998A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C9
; CURRENT APPLICATION NUMBER: US/09/834,759
; CURRENT FILING DATE: 2001-04-13
; NUMBER OF SEQ ID NOS: 547
; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 534
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-834-759-534

Query Match 31.1%; Score 41; DB 9; Length 21;
Best Local Similarity 50.0%; Pred. No. 1.3e+02;
Matches 9; Conservative 5; Mismatches 4; Indels 0; Gaps 0;

Qy 5 LKQKIASLKEIDALEY 22
Db 4 LKKEIAMLKLEIATLKHQ 21

Search completed: April 27, 2005, 15:22:47
Job time : 95.5 secs

BEST AVAILABLE COPY

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OM protein - protein search, using sw model

Run on: April 27, 2005, 14:58:17 ; Search time 29.5 Seconds
(without alignments)
70.853 Million cell updates/sec

Title: US-10-088-417A-1
Perfect score: 132
Sequence: 1 KIAALKQKIASLKQIEDALEYENDALEQ 28

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 228236

Minimum DB seq length: 0
Maximum DB seq length: 28

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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5: /cgn2_6/ptodata/1/1aa/PCTUS-COMB.pep:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	52	39.4	25	4	US-09-491-614B-25
2	46	34.8	24	2	US-08-491-527A-12
3	46	34.8	28	1	US-08-182-175A-1
4	46	34.8	28	5	PCT-US92-06412-1
5	45	34.1	24	2	US-08-491-527A-11
6	44	33.3	26	4	US-09-403-861A-7
7	41	31.1	21	4	US-09-834-759-534
8	40	30.3	28	1	US-08-182-175A-3
9	40	30.3	28	1	US-08-474-633A-70
10	40	30.3	28	4	US-08-823-771-70
11	40	30.3	28	5	PCT-US92-06412-3
12	39	29.5	25	3	US-08-737-629-8
13	39	29.5	27	1	US-08-446-922-9
14	39	29.5	27	2	US-08-484-624A-24
15	39	29.5	27	2	US-08-477-733B-24
16	39	29.5	27	3	US-09-088-913A-24
17	39	29.5	27	3	US-08-737-629-1
18	39	29.5	27	3	US-08-769-819-24
19	39	29.5	27	3	US-09-320-424-14
20	39	29.5	27	3	US-08-770-974-24
21	39	29.5	27	3	US-08-770-981-24
22	39	29.5	27	4	US-09-399-106-24
23	39	29.5	27	4	US-09-645-926A-4
24	39	29.5	27	4	US-09-509-802-4
25	39	29.5	27	4	US-09-825-563-14
26	39	29.5	27	4	US-09-852-391-4
27	39	29.5	27	4	US-09-524-100C-12

28	39	29.5	27	4	US-09-976-472A-4	Sequence 4, Appl
29	38	28.8	25	3	US-08-690-011A-2	Sequence 2, Appl
30	38	28.8	25	3	US-09-299-495F-2	Sequence 2, Appl
31	38	28.8	26	2	US-08-690-011A-3	Sequence 3, Appl
32	38	28.8	26	3	US-09-299-495F-3	Sequence 3, Appl
33	37	28.0	26	3	US-08-690-011A-37	Sequence 37, Appl
34	37	28.0	26	3	US-09-299-495F-37	Sequence 37, Appl
35	37	28.0	27	4	US-09-664-945-77	Sequence 77, Appl
36	37	28.0	28	1	US-08-182-175A-2	Sequence 2, Appl
37	37	28.0	28	1	US-08-182-175A-39	Sequence 39, Appl
38	37	28.0	28	1	US-08-182-175A-43	Sequence 43, Appl
39	37	28.0	28	1	US-08-182-175A-47	Sequence 47, Appl
40	37	28.0	28	1	US-08-474-633A-36	Sequence 36, Appl
41	37	28.0	28	1	US-08-474-633A-40	Sequence 40, Appl
42	37	28.0	28	1	US-08-474-633A-56	Sequence 56, Appl
43	37	28.0	28	1	US-08-474-633A-67	Sequence 67, Appl
44	37	28.0	28	1	US-08-944-133-18	Sequence 18, Appl
45	37	28.0	28	1	US-08-944-133-31	Sequence 31, Appl

ALIGNMENTS

RESULT 1

US-09-491-614B-25
; Sequence 25, Application US/09491614B
; Patent No. 6828106
; GENERAL INFORMATION:
; APPLICANT: Colyer, John
; TITLE OF INVENTION: Methods and Compositions Using Coiled Binding Partners
; FILE REFERENCE: 10069/1150
; CURRENT APPLICATION NUMBER: US/09/491,614B
; CURRENT FILING DATE: 2000-01-26
; PRIOR APPLICATION NUMBER: 09/259,474
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 25
; LENGTH: 25
; TYPE: PPT
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: Peptide for forming a coiled coil
; FEATURE:
; NAME/KEY: Acetylation
; LOCATION: (1)..(1)
; FEATURE:
; NAME/KEY: Amidation
; LOCATION: (25)..(25)
US-09-491-614B-25

Query Match 39.4%; Score 52; DB 4; Length 25;
Best Local Similarity 60.0%; Pred. No. 0.69; Indels 0; Gaps 0;
Matches 12; Conservative 3; Mismatches 5;

Qy 9 IASLKQIEDALEYENDALEQ 28
|||:|||||
Db 1 IAALEREIYKLEQENQLEQ 20

RESULT 2

US-08-491-527A-12
; Sequence 12, Application US/08491527A
; Patent No. 5824483
; GENERAL INFORMATION:
; APPLICANT: Houston, Michael B.
; APPLICANT: Hodges, Robert S.
; TITLE OF INVENTION: Conformationally-Restricted Combinatorial
; TITLE OF INVENTION: Library Composition and Method
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Denlinger & Associates
; STREET: 350 Cambridge Avenue, Suite 250

CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/491.527A
FILING DATE: 16-JUNE-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,199
FILING DATE: 15-JUN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/245,507
FILING DATE: 18-MAY-1994
ATTORNEY/AGENT INFORMATION:
NAME: Sholtz, Charles K.
REGISTRATION NUMBER: 38,615
REFERENCE/DOCKET NUMBER: 7900-0008.30
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: unknown
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: LPS epitope library peptide, Fig. 5A
US-08-491-527A-12

Query Match 34.8%; Score 46; DB 2; Length 24;
Best Local Similarity 54.5%; Pred. No. 4.6;
Matches 12; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY 1 KIAALKOKIASLKQEIADLEYE 22
Db 1 EIEALKKEIHLVQKIHAEKE 22

RESULT 3
US-08-182-175A-1
Sequence 1, Application US/08182175A
Patent No. 5559223
GENERAL INFORMATION:
APPLICANT: Saverio Carl Falco
APPLICANT: Sharon J. Keeler
APPLICANT: Janet A. Rice
TITLE OF INVENTION: Synthetic Storage Proteins with Defined Structure Containing H
NUMBER OF SEQUENCES: 113
CORRESPONDENCE ADDRESS:
ADDRESSEE: E.I. du Pont de Nemours and Company
STREET: 1007 Market Street
CITY: Wilmington
STATE: Delaware
COUNTRY: USA
ZIP: 19898
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: Macintosh
OPERATING SYSTEM: Macintosh System, 6.0
SOFTWARE: Microsoft Word, 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/182,175A
FILING DATE:
CLASSIFICATION: 800

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/743,006
FILING DATE: 9 August 1991
ATTORNEY/AGENT INFORMATION:
NAME: Linda Axamethy Floyd
REGISTRATION NUMBER: 33,692
REFERENCE/DOCKET NUMBER: BB-1031
TELECOMMUNICATION INFORMATION:
TELEPHONE: (302) 992-4929
TELEFAX: (302) 892-7949
TELEX: 835420
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Protein
LOCATION: 1..28
OTHER INFORMATION: /label= name
OTHER INFORMATION: /note= "(SSP 4)4"
US-08-182-175A-1
Query Match 34.8%; Score 46; DB 1; Length 28;
Best Local Similarity 40.0%; Pred. No. 5.5;
Matches 8; Conservative 9; Mismatches 3; Indels 0; Gaps 0;

QY 1 KIAALKOKIASLKQEIADLEYE 20
Db 4 KLKALEEKLKALEEKLKALE 23

RESULT 4
PCT-US92-06412-1
Sequence 1, Application PC/TUS9206412
GENERAL INFORMATION:
APPLICANT: Saverio Carl Falco
APPLICANT: Sharon J. Keeler
APPLICANT: Janet A. Rice
TITLE OF INVENTION: Synthetic Storage Proteins with Defined Structure Containing P
NUMBER OF SEQUENCES: 113
CORRESPONDENCE ADDRESS:
ADDRESSEE: E.I. du Pont de Nemours and Company
STREET: 1007 Market Street
CITY: Wilmington
STATE: Delaware
COUNTRY: USA
ZIP: 19898
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: Macintosh
OPERATING SYSTEM: Macintosh System, 6.0
SOFTWARE: Microsoft Word, 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/06412
FILING DATE: 19920807
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/743,006
FILING DATE: 9 August 1991
ATTORNEY/AGENT INFORMATION:
NAME: Linda Axamethy Floyd
REGISTRATION NUMBER: 33,692
REFERENCE/DOCKET NUMBER: BB-1031
TELECOMMUNICATION INFORMATION:
TELEPHONE: (302) 992-4929
TELEFAX: (302) 892-7949
TELEX: 835420
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 28 amino acids


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; APPLICANT: Henderson, Robert A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C9
; CURRENT APPLICATION NUMBER: US/09/834,759
; CURRENT FILING DATE: 2001-04-13
; NUMBER OF SEQ ID NOS: 547
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 534
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-834-759-534

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Query Match	31.1%;	Score 41;	DB 4;	Length 21;
Best Local Similarity	50.0%;	Pred. No. 20;		
Matches	9;	Conservative	5;	Mismatches 4;
				Indels 0;
				Gaps 0;

Qy 5 LKQKIASLKQEIDALEYE 22
 ||::||| ||| |:::
Db 4 LKKEIAMLKLEIATLKKHO 21

RESULT 8
US-08-182-175A-3
; Sequence 3, Application US/08182175A
; Patent No 5559223

/ GENERAL INFORMATION
 / APPLICANT: Saverio Carl Falco
 / APPLICANT: Sharon J. Keeler
 / APPLICANT: Janet A. Rice
 / TITLE OF INVENTION: Synthetic Storage Proteins w
 / NUMBER OF SEQUENCES: 113
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: E.I. du Pont de Nemours and Company
 / STREET: 1007 Market Street
 / CITY: Wilmington
 / STATE: Delaware
 / COUNTRY: USA
 / ZIP: 19898
 /

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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: Macintosh
OPERATING SYSTEM: Macintosh System, 6.0
SOFTWARE: Microsoft Word, 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/182.175A
FILING DATE:

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CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/743,006
FILING DATE: 9 AUGUST 1991
ATTORNEY/AGENT INFORMATION:
NAME: Linda axanethy Floyd
REGISTRATION NUMBER: 33,692
REFERENCE/DOCKET NUMBER: BB-10
TELECOMMUNICATION INFORMATION:
TELEPHONE: (302) 992-4929
TELEFAX: (302) 892-7949
TELEX: 835420

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1 IDREF: 833420
2
3 INFORMATION FOR SEQ ID NO: 3:
4
5 SEQUENCE CHARACTERISTICS:
6     LENGTH: 28 amino acids
7     TYPE: amino acid
8     STRANDEDNESS: unknown
9     TOPOLOGY: unknown
10    MOLECULE TYPE: protein
11    FEATURE:
12
13     NAME/KEY: Protein
14     LOCATION: 1..28
15     OTHER INFORMATION: /label= name
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17     OTHER INFORMATION: /note= "(SSP 714)"
18
19 US-08-182-175A-3

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US-08-182-175A-3

Query Match	30.3%;	Score 40;	DB 1;	Length 28;
Best Local Similarity	25.0%;	Pred. No. 38;		
Matches	5;	Conservative 12;	Mismatches 3;	Indels
QY	1	KTAALKQKQTASLKQBEIDALE	20	
		: : : : : :		
Db	4	KLKAMEEKLKAMEEKLKAME	23	

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RESULT 9
US-08-474-633A-70
; Sequence 70, Application US/08474633A
; Patent No. 5773691
; GENERAL INFORMATION:
; APPLICANT: E. I. DU
; APPLICANT: COMPANY
; TITLE OF INVENTION: CHIMERIC GENES AND
; TITLE OF INVENTION: METHODS FOR INCREASING
; TITLE OF INVENTION: INCREASING THE LYSINE
; TITLE OF INVENTION: AND THREONINE CONTENT
; TITLE OF INVENTION: OF THE SEEDS OF PLANTS
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:

```

COMBLES ORANGE/LEMONS
ADDRESSES: E. I. DU PONT DE NEMOURS
ADDRESS: AND COMPANY
STREET: 1007 MARKET STREET
CITY: WILMINGTON
STATE: DELAWARE
COUNTRY: U.S.A.
ZIP: 19898

```

COMPUTER READABLE FORM:
MEDIUM TYPE: FLOPPY DISK
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: MICROSOFT WORD VERSION 2.0C
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/474,633A

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FILING DATE:
APPLICATION NUMBER: 00760747-9352
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: BARBARA C. STEGELL
REGISTRATION NUMBER: 30,684
REFERENCE/DOCKET NUMBER: BB-1037-C
TELECOMMUNICATION INFORMATION:
TELEPHONE: 302-992-4931
TELEFAX: 302-773-0164
TELEX: 835420

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? INFORMATION FOR SEQ ID NO: 70:
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? SEQUENCE CHARACTERISTICS:
? LENGTH: 28 amino acids
? TYPE: amino acid
? STRANDEDNESS: unknown
? TOPOLOGY: unknown
? MOLECULE TYPE: protein
? FEATURE:
? NAME/KEY: Protein
? LOCATION: 1..28
? OTHER INFORMATION: /label= name
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? OTHER INFORMATION: /note= "(SSP 714"
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? US-08-474-633A-70

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Query Match 30.3%; Score 40; DB 1; Length 28;
Best Local Similarity 25.0%; Pred. No. 38;
Matches 5; Conservative 12; Mismatches 3; Indels

QY 1 KIAALKQKIASLKQEIDALE 20
| : | : | : | : | : | :
nb 4 KIKAMEEKLKAMEEKLKAME 23

RESULT 10
US-08-823-771-70

; Sequence 70, Application US/08823771
; Patent No. 6459019
; GENERAL INFORMATION:
; APPLICANT: E. I. DU PONT DE NEMOURS AND
; COMPANY
; TITLE OF INVENTION: CHIMERIC GENES AND
; METHODS FOR INCREASING
; INCREASING THE LYSINE
; AND THREONINE CONTENT
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: E. I. DU PONT DE NEMOURS
; AND COMPANY
; STREET: 1007 MARKET STREET
; CITY: WILMINGTON
; STATE: DELAWARE
; COUNTRY: U.S.A.
; ZIP: 19898
; COMPUTER READABLE FORM:
; MEDIUM TYPE: FLOPPY DISK
; COMPUTER: IBM PC COMPATIBLE
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: MICROSOFT WORD VERSION 2.0C
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/823,771
; FILING DATE: 24-Mar-1997
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/474,633
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: BARBARA C. SIEGELL
; REGISTRATION NUMBER: 30,684
; REFERENCE/DOCKET NUMBER: BB-1037-C
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 302-992-4931
; TELEFAX: 302-773-0164
; TELEX: 835420
; INFORMATION FOR SEQ ID NO: 70:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 amino acids
; TYPE: amino acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..28
; OTHER INFORMATION: /label= name
; /note= "(SSP 7)14"
; SEQUENCE DESCRIPTION: SEQ ID NO: 70:
US-08-823-771-70
Query Match 30.3%; Score 40; DB 4; Length 28;
Best Local Similarity 25.0%; Pred. No. 38;
Matches 5; Conservative 12; Mismatches 3; Indels 0; Gaps 0;
Oy 1 KIAALKQKIASLKQKIDALE 20
Db 4 KLKAMEEKLKAMEEKLKAME 23
RESULT 11
PCT-US92-06412-3
; Sequence 3, Application PC/TUS9206412
; GENERAL INFORMATION:
; APPLICANT: Saverio Carl Falco
; APPLICANT: Sharon J. Keeler
; APPLICANT: Janet A. Rice
; TITLE OF INVENTION: Synthetic Storage Proteins with Defined Structure Containing E
; NUMBER OF SEQUENCES: 113
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: E.I. du Pont de Nemours and Company

; STREET: 1007 Market Street
; CITY: Wilmington
; STATE: Delaware
; COUNTRY: USA
; ZIP: 19898
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy Disk
; COMPUTER: Macintosh
; OPERATING SYSTEM: Macintosh System, 6.0
; SOFTWARE: Microsoft Word, 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US92/06412
; FILING DATE: 19920807
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/743,006
; FILING DATE: 9 August 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Linda Akamethy Floyd
; REGISTRATION NUMBER: 33,692
; REFERENCE/DOCKET NUMBER: BB-1031
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (302) 992-4929
; TELEFAX: (302) 892-7949
; TELEX: 835420
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 amino acids
; TYPE: AMINO ACID
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY: Protein
; LOCATION: 1..28
; OTHER INFORMATION: /label= name
; OTHER INFORMATION: /note= "(SSP 7)4"
PCT-US92-06412-3
Query Match 30.3%; Score 40; DB 5; Length 28;
Best Local Similarity 25.0%; Pred. No. 38;
Matches 5; Conservative 12; Mismatches 3; Indels 0; Gaps 0;
Oy 1 KIAALKQKIASLKQKIDALE 20
Db 4 KLKAMEEKLKAMEEKLKAME 23
RESULT 12
US-08-737-629-8
; Sequence 8, Application US/08737629
; Patent No. 6190886
; GENERAL INFORMATION:
; APPLICANT: Hoppe, Hans-Jurgen
; APPLICANT: Reid, Kenneth BM
; TITLE OF INVENTION: Trimerising polypeptides, their manufacture
; TITLE OF INVENTION: and use.
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon & Vanderhye PC
; STREET: 8th Floor, 1100 No. 6190886th Glebe Road
; CITY: Arlington
; STATE: Virginia
; COUNTRY: United States of America
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/737,629
; FILING DATE: 10-JAN-1997
; CLASSIFICATION: 435

Thu Apr 28 07:26:21 2005

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB95/01104
; FILING DATE: 16-MAY-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9409768.0
; FILING DATE: 16-MAY-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Ms Mary J Wilson
; REGISTRATION NUMBER: 32,955
; REFERENCE/DOCKET NUMBER: 620-10
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4000
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 25 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; US-08-737-629-8

Query Match 29.5%; Score 39; DB 3; Length 25;
Best Local Similarity 50.0%; Pred. No. 46;
Matches 6; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 9 IASLKQEIADALE 20
Db 1 VASLRQQVEALQ 12

RESULT 13
US-08-446-922-9
; Sequence 9, Application US/08446922
; Patent No. 5716805
; GENERAL INFORMATION:
; APPLICANT: Spriggs, Melanie
; APPLICANT: Srinivasan, Subhashini
; TITLE OF INVENTION: Methods of Preparing Soluble, Oligomeric
; TITLE OF INVENTION: Proteins
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Immunex Corporation
; STREET: 51 University Street
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: Apple Operating System 7.1
; SOFTWARE: Microsoft Word for Apple, Version 5.1a
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/446,922
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: USN 08/107,353
; FILING DATE: 08-13-93
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Perkins, Patricia A
; REGISTRATION NUMBER: 34,693
; REFERENCE/DOCKET NUMBER: 1003-A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206)587-0430
; TELEFAX: (206)233-0644
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 27 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear

; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-08-446-922-9

Query Match 29.5%; Score 39; DB 1; Length 27;
Best Local Similarity 50.0%; Pred. No. 51;
Matches 6; Conservative 6; Mismatches 0; Indels 0; Gaps 0;

QY 9 IASLKQEIADALE 20
Db 3 VASLRQQVEALQ 14

RESULT 14
US-08-484-624A-24
; Sequence 24, Application US/08484624A
; Patent No. 5962406
; GENERAL INFORMATION:
; APPLICANT: ARMITAGE, RICHARD
; APPLICANT: FANSLAW, WILLIAM
; APPLICANT: SPRIGGS, MELANIE
; APPLICANT: SRINIVASAN, SUBHASHINI
; APPLICANT: GIBSON, MARYLOU
; APPLICANT: MORRIS, ARVIA E.
; APPLICANT: MCGREW, JEFFERY
; TITLE OF INVENTION: NOVEL CYTOKINE THAT BINDS CD40
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: IMMUNEX CORPORATION
; STREET: 51 UNIVERSITY STREET
; CITY: SEATTLE
; STATE: WASHINGTON
; COUNTRY: USA
; ZIP: 98101
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: Apple Operating System 7.5.5
; SOFTWARE: MS Word for Apple Power Macintosh, version 6.0.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/484,624A
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/477,733
; FILING DATE: June 07, 1995
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/969,703
; FILING DATE: October 23, 1992
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/805,723
; FILING DATE: December 5, 1991
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/783,707
; FILING DATE: October 25, 1991
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Perkins, Patricia A.
; REGISTRATION NUMBER: 34,693
; REFERENCE/DOCKET NUMBER: 2802-D
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 2065870430
; TELEFAX: 2065870606
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 27 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: linear
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; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-484-624A-24

Query Match 29.5%; Score 39; DB 2; Length 27;
Best Local Similarity 50.0%; Pred. No. 51;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 9 IASLKQEI DALE 20
:||||:|:|:|:|:
Db 3 VASLRQQVEALQ 14

RESULT 15

US-08-477-733B-24
; Sequence 24, Application US/08477733B
; Patent No. 5981724

; GENERAL INFORMATION:
; APPLICANT: ARMITAGE, RICHARD
; APPLICANT: FANSLAW, WILLIAM
; APPLICANT: SPRIGGS, MELANIE
; APPLICANT: SRINIVASAN, SUBHASHINI
; APPLICANT: GIBSON, MARYLOU
; APPLICANT: MORRIS, ARVIA E.
; APPLICANT: MCGREW, JEFFERY
; TITLE OF INVENTION: NOVEL CYTOKINE THAT BINDS CD40
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: IMMUNEX CORPORATION
; STREET: 51 UNIVERSITY STREET
; CITY: SEATTLE
; STATE: WASHINGTON
; COUNTRY: USA
; ZIP: 98101

COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: Apple Operating System 7.5.5
; SOFTWARE: MS Word for Apple Power Macintosh, version 6.0.1

; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/477,733B

; FILING DATE: June 07, 1995

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/249,189

; FILING DATE: May 24, 1994

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 07/969,703

; FILING DATE: October 23, 1992

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 07/805,723

; FILING DATE: December 5, 1991

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 07/783,707

; FILING DATE: October 25, 1991

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: Perkins, Patricia A.

; REGISTRATION NUMBER: 34,693

; REFERENCE/DOCKET NUMBER: 2802-D

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 2065870430

; TELEFAX: 2065870606

; INFORMATION FOR SEQ ID NO: 24:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 27 amino acids

; TYPE: amino acid

; STRANDEDNESS: not relevant

; TOPOLOGY: linear

; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-477-733B-24

Query Match 29.5%; Score 39; DB 2; Length 27;
Best Local Similarity 50.0%; Pred. No. 51;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 9 IASLKQEI DALE 20
:||||:|:|:|:|:
Db 3 VASLRQQVEALQ 14

Search completed: April 27, 2005, 15:19:42
Job time : 38.5 secs

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OM protein - protein search, using sw model

Run on: April 27, 2005, 14:54:59 ; Search time 23'5 Seconds
(without alignments)
114.641 Million cell updates/sec

Title: US-10-088-417A-1

Perfect score: 132
Sequence: 1 KIAALKQKIASLKQIEDALEYENDALEQ 28

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 5694

Minimum DB seq length: 0
Maximum DB seq length: 28

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : PIR_79:*
1: pir1.*
2: pir2.*
3: pir3.*
4: pir4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	33	25.0	22	2	JP0069
2	33	25.0	25	2	S27229
3	31	23.5	25	2	JP0067
4	30	22.7	20	2	A61276
5	30	22.7	27	2	A38123
6	29	22.0	16	2	E58503
7	29	22.0	21	2	F38837
8	29	22.0	22	2	JP0066
9	28	21.2	18	2	A20923
10	28	21.2	23	2	PH0858
11	27	20.5	21	2	I40659
12	27	20.5	21	2	I40657
13	27	20.5	25	2	A44790
14	27	20.5	27	2	JP0065
15	27	20.5	28	2	A61417
16	26.5	20.1	26	2	F69265
17	26.5	20.1	27	2	S17646
18	26	19.7	23	2	S24279
19	26	19.7	24	2	A43431
20	26	19.7	25	2	A23605
21	26	19.7	26	2	PI0027
22	26	19.7	27	2	I46492
23	25.5	19.3	20	2	A53592
24	25	18.9	14	2	A61032
25	25	18.9	15	2	PA0025
26	25	18.9	19	2	PN0467
27	25	18.9	24	2	S47281
28	25	18.9	25	2	B44560
29	25	18.9	28	2	PL0005

photosystem I chai
fructose-bisphosph
superoxide dismuta
15K protein A - ra
15K protein B - ra
cyclolytic enteroco
DNA-binding protei
hypothetical prote
myosin heavy chain
cell surface prote
T-cell receptor be
Ig H chain V-D-J r
tubulin alpha-chain
mastoparan M - hor
mastoparan - Yello
histamine-releasein

ALIGNMENTS

RESULT 1

JP0069
ribosomal protein L30 - Thermomonospora mesophila (fragment)

C;Species: Thermomonospora mesophila
C;Date: 10-Mar-1994 #sequence_revision 28-Oct-1994 #text_change 28-Oct-1994
C;Accession: JP0069

R;Ochi, K.
submitted to JPIID, February 1994

A;Description: Phylogenetic diversity in the genus Bacillus and comparative ribosomal p
A;Reference number: JP0042
A;Accession: JP0069

A;Molecule type: protein

A;Residues: 1-22 <OCH>

C;Keywords: protein biosynthesis; ribosome

Query Match 25.0%; Score 33; DB 2; Length 22;
Best Local Similarity 36.8%; Pred. No. 5e+02;
Matches 7; Conservative 3; Mismatches 9; Indels 0; Gaps 0;

Qy 1 KIAALKQKIASLKQIEDAL 19
||| : : : : :
Db 4 KITQLRSKIGKQKQNDXL 22

RESULT 2

S27229
prothymosin alpha homolog - Escherichia coli (fragments)

C;Species: Escherichia coli

C;Date: 22-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 10-Nov-1995
C;Accession: S27229

R;Vartapetian, A.; Chichkova, N.; Lyakhov, I.; Makarova, T.; Evstafieva, A.; Bogdanov, A.;

FEBS Lett. 313, 95-97, 1992
A;Title: Segments of Escherichia coli genome similar to the exons of human prothymosin a
A;Reference number: S27229; PMID:1426289

A;Accession: S27229

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-6;7-25 <VAR>

A;Note: the authors did not translate the codon for residues 17

Query Match 25.0%; Score 33; DB 2; Length 25;
Best Local Similarity 42.1%; Pred. No. 5.8e+02;
Matches 8; Conservative 4; Mismatches 7; Indels 0; Gaps 0;

Qy 10 ASLKQIEDALEYENDALEQ 28
||| : : : : :
Db 4 ASVNEENGELADNDDEE 22

RESULT 3

JP0067
ribosomal protein L30 - Thermomonospora chromogena (fragment)

Thu Apr 28 07:26:22 2005

C;Species: Thermomonospora chromogena
C;Date: 10-Mar-1994 #sequence_revision 28-Oct-1994 #text_change 28-Oct-1994
C;Accession: JP0067
R;Ochi, K.
submitted to JPIID, February 1994
A;Description: Phylogenetic diversity in the genus Bacillus and comparative ribosomal protein
A;Reference number: JP0042
A;Accession: JP0067
A;Molecule type: protein
A;Residues: 1-25 <OCH>
C;Keywords: protein biosynthesis; ribosome

Query Match 23.5%; Score 31; DB 2; Length 25;
Best Local Similarity 31.6%; Pred. No. 1e+03; Indels 0; Gaps 0;
Matches 6; Conservative 5; Mismatches 8

QY 1 KIAALKQKIASLKQIDAL 19
DB 4 KITQVRSKIGKQNXDSL 22

RESULT 4
A61276
superoxide dismutase (EC 1.15.1.1) (Fe/Mn) homolog - chicken (fragment)
N;Alternate names: osteoclast membrane glycoprotein
C;Species: Gallus gallus (chicken)
C;Date: 12-May-1994 #sequence_revision 12-May-1994 #text_change 05-Mar-1999
C;Accession: A61276
R;Oursler, M.J.; Li, L.; Osadoby, P.
J. Cell. Biochem. 46, 219-233, 1991
A;Title: Purification and characterization of an osteoclast membrane glycoprotein with h
A;Reference number: A61276; MUID:92129474; PMID:1723067
A;Accession: A61276
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-20 <OUR>
C;Function:
A;Description: catalyzes the dismutation of 2 molecules of peroxide radical to dioxygen
C;Keywords: metalloprotein; oxidoreductase

Query Match 22.7%; Score 30; DB 2; Length 20;
Best Local Similarity 53.8%; Pred. No. 1.1e+03; Indels 0; Gaps 0;
Matches 7; Conservative 1; Mismatches 5

QY 15 EIDALEYENDALE 27
DB 3 ELPDLPAYDALE 15

RESULT 5
A38123
probable maud protein - Methylobacterium extorquens (strain AM1) (fragment)
C;Species: Methylobacterium extorquens
C;Date: 24-Jul-1992 #sequence_revision 24-Jul-1992 #text_change 09-Jul-2004
C;Accession: A38123
R;Chistoserdov, A.Y.; Lidstrom, M.E.
J. Bacteriol. 173, 5909-5913, 1991
A;Title: The small-subunit polypeptide of methyamine dehydrogenase from Methylobacteriu
A;Reference number: A38123; MUID:91358386; PMID:1855555
A;Accession: A38123
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-27 <CHI>
A;Cross-references: UNIPROT:Q49126; GB:M57963

Query Match 22.7%; Score 30; DB 2; Length 27;
Best Local Similarity 29.2%; Pred. No. 1.5e+03; Indels 0; Gaps 0;
Matches 7; Conservative 8; Mismatches 9

QY 2 IAALKQKIASLKQIDALEYENDA 25
DB 1 LEADKSGFASIQFMTSRKSHDA 24

RESULT 6

E58503
superoxide dismutase (EC 1.15.1.1) - unidentified bacterium (fragment)
N;Alternate names: 21.3K bladder and kidney stone protein
C;Species: unidentified bacterium
C;Date: 07-Feb-1997 #sequence_revision 07-Feb-1997 #text_change 09-Jul-2004
C;Accession: E58503
R;Binette, J.P.; Binette, M.B.
submitted to the Protein Sequence Database, October 1996
A;Description: The proteins of kidney and gallbladder stones.
A;Reference number: A58501
A;Accession: E58503
A;Status: preliminary
A;Molecule type: protein
A;Residues: 1-16 <BIN>
A;Cross-references: UNIPROT:Q7M137
A;Experimental source: human bladder and kidney stones
C;Function:
A;Description: catalyzes the dismutation of 2 molecules of peroxide radical to dioxygen
C;Keywords: metalloprotein; oxidoreductase

Query Match 22.0%; Score 29; DB 2; Length 16;
Best Local Similarity 40.0%; Pred. No. 1.2e+03; Indels 0; Gaps 0;
Matches 6; Conservative 3; Mismatches 6

QY 12 LKQIDALEYENDAL 26
DB 1 MEHTLPPLPYEMDAL 15

RESULT 7

F38837
T-cell receptor beta chain precursor V region (23.1) - human (fragment)
C;Species: Homo sapiens (man)
C;Date: 28-May-1992 #sequence_revision 28-May-1992 #text_change 23-Jul-1999
C;Accession: F38837
R;Jumats, Y.; Wege, H.; Straus, A.; Ott, M.; Bannwarth, W.; Lanchbury, J.; Panayi, G.;
Proc. Natl. Acad. Sci. U.S.A. 88, 8534-8538, 1991
A;Title: The T-cell-receptor repertoire in the synovial fluid of a patient with rheumat
A;Reference number: A41299; MUID:92020887; PMID:1656449
A;Accession: F38837
A;Status: preliminary; not compared with conceptual translation
A;Molecule type: mRNA
A;Residues: 1-21 <UEM>
A;Cross-references: GB:S57606; NID:G236346; PIDN:AA19970.1; PID:G236347
C;Superfamily: immunoglobulin V region; immunoglobulin homology
C;Keywords: T-cell receptor

Query Match 22.0%; Score 29; DB 2; Length 21;
Best Local Similarity 40.0%; Pred. No. 1.5e+03; Indels 0; Gaps 0;
Matches 6; Conservative 4; Mismatches 5

QY 12 LKQIDALEYENDAL 26
DB 1 LSLNVNALLEDDAL 15

RESULT 8

JP0066
ribosomal protein L30 - Nocardia asteroides (fragment)
C;Species: Nocardia asteroides
C;Date: 10-Mar-1994 #sequence_revision 28-Oct-1994 #text_change 09-Jul-2004
C;Accession: JP0066
R;Ochi, K.
submitted to JPIID, February 1994
A;Description: Phylogenetic diversity in the genus Bacillus and comparative ribosomal p
A;Reference number: JP0042
A;Accession: JP0066
A;Molecule type: protein
A;Residues: 1-22 <OCH>
A;Cross-references: UNIPROT:Q7M028
C;Keywords: protein biosynthesis; ribosome

R;Ochi, K.
submitted to JIPiD, February 1994
A;Description: Phylogenetic diversity in the genus *Bacillus* and comparative ribosomal p
A;Reference number: JP0042

A; Reference number: J06012
A; Accession: JP0065
A; Molecule type: protein
A; Residues: 1-27 <CH>
C; Superfamily: Escherichia coli ribosomal protein L30
C; Keywords: protein biosynthesis; ribosome

Query Match	20.5%;	Score 27;	DB 2;	Length 27;
Best Local Similarity	36.8%;	Pred. No. 3.5e+03;		
Matches	7;	Conservative	2;	Mismatches 10;
				Indels 0;
				Gaps 0;

Qy 1 KIAALKQKIASLKQEIDAL 19
|| : || : ||
pb 4 KITOVKSYIGSKONXXDTL 22

```

RESULT 15
b61417
bdellin B-3 - medicinal leech (fragment)
C:Species: Hirudo medicinalis (medicinal leech)
C:Date: 09-Sep-1994 #sequence_revision 09-Sep-1994 #text_change 07-May-1999
C:Accession: A61417
R:Krejci, K.; Fritz, H.
PEBS Lett. 64, 152-155, 1976
A:Title: Structural homology of a trypsin-plasmin inhibitor from leeches (bdellin B-3)
A:Reference number: A61417; PMID:76188026; PMID:131707
A:Accession: A61417
A>Status: preliminary
A:Molecule type: protein
A:Residues: 1-28 <KRE>

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Query Match	20.5%	Score 27;	DB 2;	Length 28;
Best Local Similarity	40.0%;	Pred. No. 3.6e+03;		
Matches	4:	Conservative	3;	Mismatches 3;
				Indels 0;
				Gaps 0;

Qy	17	DALEYENDAL	26
		: :	
Db	17	DGVTYDNECL	26

Search completed: April 27, 2005, 15:07:07
Job time : 29.5 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 27, 2005, 14:46:25 ; Search time 112 Seconds
(without alignments)
128.020 Million cell updates/sec

Title: US-10-088-417A-1
Perfect score: 132
Sequence: 1 KIAALKQKIASLKQIDALEYENDALEQ 28

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 23310

Minimum DB seq length: 0
Maximum DB seq length: 28

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : UniProt_03.*
1: uniprot_sprot.*
2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	38	28.8	20	1 SODF_PASPI	P81527 pasteurella
2	38	28.8	23	2 Q9UCS1	Q9UCS1 homo sapien
3	35	26.5	22	2 Q7RR69	Q7RR69 plasmodium
4	34	25.8	22	2 Q44710	Q44710 drosophila
5	32	24.2	16	2 Q95Y34	Q95Y34 caenorhabdi
6	32	24.2	28	2 Q82Y33	Q82Y33 pyrobaculum
7	31	23.5	15	1 SODM_ENTAE	P22799 enterobacte
8	31	23.5	18	2 Q9QZX4	Q9QZX4 mus spretus
9	31	23.5	18	2 Q9QZX5	Q9QZX5 mus musculu
10	31	23.5	19	2 Q9UC80	Q9UC80 homo sapien
11	31	23.5	27	2 Q9NUT6	Q9NUT6 leishmania
12	30	22.7	28	2 Q65311	Q65311 arabidopsis
13	29	22.0	16	2 Q7M137	Q7M137 unidentified
14	29	22.0	19	1 OXLA_OPHHA	P81383 ophiophagus
15	29	22.0	22	2 Q7M0Z8	Q7M0Z8 nocardia as
16	29	22.0	25	2 Q7PCW4	Q7PCW4 plasmodium
17	29	22.0	25	2 Q7RLH1	Q7RLH1 plasmodium
18	29	22.0	26	2 Q9CS32	Q9CS32 mus musculu
19	29	22.0	27	2 Q25867	Q25867 plasmodium
20	29	22.0	27	2 Q661K4	Q661K4 borrelia ga
21	28.5	21.6	24	2 Q9RQ27	Q9RQ27 clostridium
22	28	21.2	15	2 Q6TAR1	Q6TAR1 homo sapien
23	28	21.2	21	2 Q63813	Q63813 rattus sp.
24	28	21.2	22	2 Q91QR9	Q91QR9 cauliflower
25	28	21.2	23	2 Q9UWL6	Q9UWL6 methanosarc
26	28	21.2	24	2 Q9GN65	Q9GN65 caenorhabdi
27	28	21.2	26	2 Q9UWF9	Q9UWF9 methanosarc
28	28	21.2	26	2 Q71QT7	Q71QT7 flavescence
29	28	21.2	26	2 Q99JC5	Q99JC5 rattus sp.
30	28	21.2	28	2 Q9RAT7	Q9RAT7 lactococcus
31	27	20.5	15	2 Q61DF5	Q61DF5 trichostrom

32	27	20.5	17	2 Q9PS13	Q9PS13 gallus gall
33	27	20.5	20	2 Q8S9F3	Q8S9F3 nicotiana s
34	27	20.5	21	2 Q46010	Q46010 clostridium
35	27	20.5	21	2 Q46011	Q46011 clostridium
36	27	20.5	22	2 Q6VRW6	Q6VRW6 fissidens s
37	27	20.5	22	2 Q9TR68	Q9TR68 sus scrofa
38	27	20.5	24	2 Q9KIL2	Q9KIL2 streptomyce
39	27	20.5	24	2 Q9REH8	Q9REH8 borrelia bu
40	27	20.5	25	2 Q9R4S5	Q9R4S5 streptomyce
41	27	20.5	25	2 Q9R5J4	Q9R5J4 escherichia
42	27	20.5	26	2 Q9T2S3	Q9T2S3 solanum tub
43	27	20.5	26	2 Q84FW9	Q84FW9 cauliflower
44	26.5	20.1	26	1 Y126_ARCFU	O30111 archaeglob
45	26.5	20.1	26	2 Q9BM05	Q9BM05 habrotyrocha

ALIGNMENTS

RESULT 1					
SODF_PASPI					
ID	SODF_PASPI	STANDARD;	PRT;	20 AA.	
AC	P81527;				
DT	15-DEC-1998	(Rel. 37, Created)			
DT	15-DEC-1998	(Rel. 37, Last sequence update)			
DT	05-JUL-2004	(Rel. 44, Last annotation update)			
DE	Superoxide dismutase [Fe] (EC 1.15.1.1) (Fragment).				
OS	Name=sodB;				
OS	Pasteurella piscicida (Photobacterium damsela (subsp. piscicida)).				
OC	Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales;				
OC	Vibrionaceae; Photobacterium.				
OX	NCBI_TaxID=38294;				
RN	[1]				
RP	SEQUENCE.				
RC	STRAIN=MT1415;				
RX	MEDLINE=99173752; PubMed=10075430;				
RA	Barnes A.C., Balebona M.C., Horne M.T., Ellis A.E.;				
RT	"Superoxide dismutase and catalase in Photobacterium damsela subsp.				
RT	piscicida and their roles in resistance to reactive oxygen species.";				
RL	Microbiology 145:483-494(1999).				
CC	- - FUNCTION: Destroys radicals which are normally produced within the				
CC	cells and which are toxic to biological systems.				
CC	- - CATALYTIC ACTIVITY: 2 superoxide + 2 H(+) = O(2) + H(2)O(2).				
CC	- - COPACTIC ACTIVITY: Binds 1 iron ion per subunit (By similarity).				
CC	- - SUBUNIT: Homodimer (By similarity).				
CC	- - SUBCELLULAR LOCATION: Periplasmic.				
CC	- - SIMILARITY: Belongs to the iron/manganese superoxide dismutase				
CC	family.				
DR	HSSP; P09157; IISC.				
DR	InterPro; IPR001189; SODismutase.				
DR	Pfam; PF00081; Sod Fe N; 1.				
KW	Direct protein sequencing; Iron; Metal-binding; Oxidoreductase;				
KW	Periplasmic.				
FT	NON_TER 20				
SQ	SEQUENCE 20 AA; 2153 MW; A8D31FDAE8553B6D CRC64;				
Query Match 28.8%; Score 38; DB 1; Length 20;					
Best Local Similarity 61.5%; Pred. No. 1e+03;					
Matches 8; Conservative 1; Mismatches 4; Indels 0; Gaps 0;					
QY	15 EIDALEYENDALE 27				
Db	1:				
	3 ELPALPYAKDALE 15				
RESULT 2					
Q9UCS1					
ID	Q9UCS1	PRELIMINARY;	PRT;	23 AA.	
AC	Q9UCS1;				
DT	01-MAY-2000	(TRENBLrel. 13, Created)			
DT	01-MAY-2000	(TRENBLrel. 13, Last sequence update)			
DT	25-OCT-2004	(TRENBLrel. 28, Last annotation update)			
DE	TROPOMYOSIN=33 kDa calcium binding protein fragment A (Fragment).				

AC	Q04710;
AD	01-JUN-1998 (TReMBLrel. 06, Created)
DT	01-JUN-1998 (TReMBLrel. 06, Last sequence update)
DE	01-JUN-2001 (TReMBLrel. 17, Last annotation update)
DE	Tropomyosin 1 isoform e (Fragment).
DE	Name=Tml;
OS	Drosophila pseudoobscura (Fruit fly).
OC	Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC	Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC	Ephydroidea; Drosophilidae; Drosophila.
OX	NCBI_TaxID=7237;
OX	[1]
RN	SEQUENCE FROM N.A.
RP	STRAIN=Goidendale 3;
RC	MEDLINE=99442389; PubMed=10511563;
RX	Hamblin M.T., Aquadro C.F.;
RA	"DNA sequence variation and the recombinational landscape in
RA	Drosophila pseudoobscura. A study of the second chromosome.";
RT	Genetics 153:859-869 (1999).
RL	EMBL; AF039273; AAB96670.1; -
DR	EMBL; AF039273; AAB96670.1; JOINED.
DR	FlyBase; FBgn0025413; Dpse\Tml.
DR	InterPro; IPR000533; Tropomyosin.
DR	Pfam; PF00261; tropomyosin; 1.
FT	NON_TER 1
FT	NON_TER 22
FT	SEQUENCE 22 AA; 2611 MW; F86B844608F4175C CRC64;
SQ	
Query Match	25.8%; Score 34; DB 2; Length 22;
Best Local Similarity	35.3%; Pred.No. 3.3e+03;
Matches	6; Conservative 7; Mismatches 4; Indels 0; Gaps
QY	6 KOKIASLKQEIDALEYE 22
DB	2 EKQVKRLQKEVDLEDE 18
	:::: :: ::
RESULT 5	
ID	Q95Y34 PRELIMINARY; PRT; 16 AA.
AC	Q95Y34;
DT	01-DEC-2001 (TReMBLrel. 19, Created)
DT	01-DEC-2001 (TReMBLrel. 19, Last sequence update)
DT	01-OCT-2003 (TReMBLrel. 25, Last annotation update)
DE	Hypothetical protein Y108G3AL.6.
DE	Name=Y108G3AL.6; ORFNames=Y108G3AL.6;
OS	Caenorhabditis elegans.
OC	Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabdita; Rhabditoidea;
OC	Rhabditidae; Peloderinae; Caenorhabditis.
OX	NCBI_TaxID=6239;
OX	[1]
RN	SEQUENCE FROM N.A.
RP	STRAIN=Bristol N2;
RC	MEDLINE=99069613; PubMed=9851916;
RX	WormBase Consortium;
RG	"genome sequence of the nematode C. elegans: a platform for
RT	investigating biology. The C. elegans Sequencing Consortium.";
RL	Science 282:2012-2018(1998).
RL	[2]
RN	SEQUENCE FROM N.A.
RP	STRAIN=Bristol N2;
RC	Courtney L.;
RA	"The sequence of C. elegans cosmid Y108G3AL.";
RT	Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
RL	[3]
RN	SEQUENCE FROM N.A.
RP	STRAIN=Bristol N2;
RC	Waterston R.H.;
RA	Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
RL	[4]
RN	SEQUENCE FROM N.A.
RP	STRAIN=Bristol N2;
RC	Waterston R.;
RA	

RL Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
 [5]
 RN
 RP SEQUENCE FROM N.A.
 RC STRAIN=Bristol N2;
 RA Waterston R.;
 RL Submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases.
 [6]
 RN
 RP SEQUENCE FROM N.A.
 RC STRAIN=Bristol N2;
 RA Waterston R.;
 RL Submitted (OCT-2001) to the EMBL/GenBank/DDBJ databases.
 [7]
 RN
 RP SEQUENCE FROM N.A.
 RC STRAIN=Bristol N2;
 RA Waterston R.;
 RL Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases.
 [8]
 RN
 RP SEQUENCE FROM N.A.
 RC STRAIN=Bristol N2;
 RA Waterston R.;
 RL Submitted (NOV-2002) to the EMBL/GenBank/DDBJ databases.
 [9]
 RN
 RP SEQUENCE FROM N.A.
 RC STRAIN=Bristol N2;
 RA Waterston R.;
 RL Submitted (NOV-2002) to the EMBL/GenBank/DDBJ databases.
 [10]
 RN
 RP SEQUENCE FROM N.A.
 RC STRAIN=Bristol N2;
 RA Waterston R.;
 RL Submitted (MAR-2004) to the EMBL/GenBank/DDBJ databases.
 [11]
 RN
 RP SEQUENCE FROM N.A.
 RC STRAIN=Bristol N2;
 RA Wilson R.;
 RL Submitted (APR-2004) to the EMBL/GenBank/DDBJ databases.
 [12]
 RN
 RP SEQUENCE FROM N.A.
 RC STRAIN=Bristol N2;
 RG WormBase Consortium;
 RL Submitted (SEP-2004) to the EMBL/GenBank/DDBJ databases.
 DR EMBL; AC024744; AAL3326.1; -;
 DR WormBase; WBGene0022437; Y108G3AL.6.
 DR WormPep; Y108G3AL.6; CE29605.
 KW Hypothetical protein.
 SQ SEQUENCE 16 AA; 1904 MW; 4932099B5AA361E5 CRC64;
 Query Match 24.2%; Score 32; DB 2; Length 16;
 Best Local Similarity 35.7%; Pred. No. 4.2e+03;
 Matches 5; Conservative 5; Mismatches 4; Indels 0; Gaps 0;
 Qy 15 EIDALEYENDALEQ 28
 Db 2 EVDDSDYEDSDIEE 15
 RESULT 6
 Q8ZY3 PRELIMINARY; PRT; 28 AA.
 ID Q8ZY3
 AC Q8ZY3;
 DT 01-MAR-2002 (TrEMBLrel. 20, Created)
 DT 01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
 DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
 DE Hypothetical protein PAE0551.
 GN OrderedLocusNames=PAE0551;
 OS Pyrobaculum aerophilum.
 OC Archaea; Crenarchaeota; Thermoprotei; Thermoproteales;
 OC Thermoproteaceae; Pyrobaculum.
 OX NCBI_TaxID=13773;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=IM2;
 RX MEDLINE=21664397; PubMed=11792869; DOI=10.1073/pnas.241636498;

RA Fitz-Gibbon S.T., Ladner H., Kim U.-J., Stetter K.O., Simon M.I.,
 RA Miller J.H.;
 RT "Genome sequence of the hyperthermophilic crenarchaeon Pyrobaculum
 RT aerophilum";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:984-989(2002).
 DR EMBL; AE009773; AAL62858.1; -;
 KW Complete proteome; Hypothetical protein.
 SQ SEQUENCE 28 AA; 869F81422C53A14D CRC64;
 Query Match 24.2%; Score 32; DB 2; Length 28;
 Best Local Similarity 33.3%; Pred. No. 7.2e+03;
 Matches 6; Conservative 5; Mismatches 7; Indels 0; Gaps 0;
 Qy 2 IAALKQKIASLKQKIDAL 19
 Db 3 VAEIKASVAELKVAVGSL 20
 RESULT 7
 SODM_ENTAE STANDARD; PRT; 15 AA.
 ID SODM_ENTAE
 AC P22759;
 DT 01-AUG-1991 (Rel. 19, Created)
 DT 01-AUG-1991 (Rel. 19, Last sequence update)
 DT 05-JUL-2004 (Rel. 44, Last annotation update)
 DE Superoxide dismutase [Fe] (EC 1.15.1.1) (Fragment).
 GN Name=soda;
 OS Enterobacter aerogenes (Aerobacter aerogenes).
 OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
 OC Enterobacteriaceae; Enterobacter.
 OX NCBI_TaxID=548;
 RN [1]
 RP SEQUENCE.
 RX MEDLINE=91248479; PubMed=1368658;
 RA Kim S.W., Lee S.O., Lee T.H.;
 RT "Purification and characterization of superoxide dismutase from
 RT Aerobacter aerogenes";
 RL Agric. Biol. Chem. 55:101-108(1991).
 CC -!- FUNCTION: Destroys radicals which are normally produced within the
 CC cells and which are toxic to biological systems.
 CC -!- CATALYTIC ACTIVITY: 2 superoxide + 2 H(+) = O(2) + H(2)O(2).
 CC -!- COFACTOR: Binds 1 iron ion per subunit (By similarity).
 CC -!- SUBUNIT: Homodimer.
 CC -!- SIMILARITY: Belongs to the iron/manganese superoxide dismutase
 CC family.
 DR PIR; P0615; P0615.
 DR InterPro; IPR001189; SODismutase.
 DR Pfam; PF00081; Sod_Fe_N; 1.
 DR PROSITE; PS00088; SOD_MN; PARTIAL.
 KW Direct protein sequencing; Iron; Metal-binding; Oxidoreductase.
 FT NON TER 15
 SQ SEQUENCE 15 AA; 1756 MW; 352F3D949202E642 CRC64;
 Query Match 23.5%; Score 31; DB 1; Length 15;
 Best Local Similarity 53.8%; Pred. No. 5.2e+03;
 Matches 7; Conservative 1; Mismatches 5; Indels 0; Gaps 0;
 Qy 15 EIDALEYENDALE 27
 Db 3 ELPQLPAYDALE 15
 RESULT 8
 Q9QZX4 PRELIMINARY; PRT; 18 AA.
 ID Q9QZX4
 AC Q9QZX4;
 DT 01-MAY-2000 (TrEMBLrel. 13, Created)
 DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
 DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
 DE Desmoplakin (Fragment).
 GN Name=Dep;
 OS Mus spretus (Western wild mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10096;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Green K.J., Guy S.G., Cserhalmi-Friedman P., McLean W.H.I.,
 RA Christiano A.M., Wagner R.M.;
 RL Submitted (MAY-1999) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AF148515; AAF02528.1; -
 DR MGD; MGI:109611; Dep.
 FT NON_TER 1
 FT NON_TER 18
 SQ SEQUENCE 18 AA; 2289 MW; 3B41DF23C1E2F960 CRC64;
 Query Match 23.5%; Score 31; DB 2; Length 18;
 Best Local Similarity 41.2%; Pred. No. 6.2e+03;
 Matches 7; Conservative 6; Mismatches 2; Indels 2; Gaps 1;
 QY 11 SLKQEIIDALEYENDALE 27
 Db :|||: :|||: |||
 4 NLRQEIIE--KFQKQALE 18
 RESULT 9
 Q9QZX5 PRELIMINARY; PRT; 18 AA.
 AC Q9QZX5; 13, Created
 DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
 DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
 DT 01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
 DE Desmolakin (Fragment).
 GN Name-Dsp;
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C75BL6/J;
 RA Green K.J., Guy S.G., Cserhalmi-Friedman P., McLean W.H.I.,
 RA Christiano A.M., Wagner R.M.;
 RL Submitted (MAY-1999) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AF148514; AAF02527.1; -
 DR MGD; MGI:109611; Dep.
 DR GO; GO:0016323; C:baculateral plasma membrane; IDA.
 DR GO; GO:0030057; C:desmosome; IDA.
 DR GO; GO:0005739; C:mitochondrion; IDA.
 FT NON_TER 1
 FT NON_TER 18
 SQ SEQUENCE 18 AA; 2289 MW; 3B41DF23C1E2F960 CRC64;
 Query Match 23.5%; Score 31; DB 2; Length 18;
 Best Local Similarity 41.2%; Pred. No. 6.2e+03;
 Matches 7; Conservative 6; Mismatches 2; Indels 2; Gaps 1;
 QY 11 SLKQEIIDALEYENDALE 27
 Db :|||: :|||: |||
 4 NLRQEIIE--KFQKQALE 18
 RESULT 10
 Q9UC80 PRELIMINARY; PRT; 19 AA.
 AC Q9UC80;
 DT 01-MAY-2000 (TrEMBLrel. 13, Created)
 DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
 DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
 DE 21.5 kDa stone matrix protein (BC 1.15.1.1) (Superoxide dismutase [Mn/Fe]) (Fragment).
 DE [Mn/Fe] (Fragment).
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]

RP SEQUENCE.
 RA Binette J.P., Binette M.B.;
 RT "Sequencing of proteins extracted from stones."
 RL Submitted (JUL-1995) to the EMBL/GenBank/DBJ databases.
 CC -!- FUNCTION: Destroys radicals which are normally produced within the
 CC cells and which are toxic to biological systems (By similarity).
 CC -!- CATALYTIC ACTIVITY: 2 superoxide + 2 H(+) = O(2) + H(2)O(2).
 CC -!- SIMILARITY: Belongs to the iron/manganese superoxide dismutase
 CC family.
 DR HSSP; P09223; 1D70.
 DR GO; GO:0046872; F:metal ion binding; IEA.
 DR GO; GO:0016491; F:oxidoreductase activity; IEA.
 DR GO; GO:0004784; F:superoxide dismutase activity; IEA.
 DR GO; GO:0006801; P:superoxide metabolism; IEA.
 DR InterPro; IPR001189; SODismutase.
 DR Pfam; PF00081; Sod_Fe_N; 1.
 KW Oxidoreductase.
 SQ SEQUENCE 19 AA; 2116 MW; A0D0DAE848EE7894 CRC64;
 Query Match 23.5%; Score 31; DB 2; Length 19;
 Best Local Similarity 46.2%; Pred. No. 6.5e+03;
 Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;
 QY 15 EIDALEYENDALE 27
 Db :|||: :|||: |||
 3 ELPLPYAHDAQ 15
 RESULT 11
 Q9NJ76 PRELIMINARY; PRT; 27 AA.
 AC Q9NJ76;
 DT 01-OCT-2000 (TrEMBLrel. 15, Created)
 DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
 DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
 DE Major paraflagellar rod protein (Fragment).
 OS Leishmania major.
 OC Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae; Leishmania.
 OX NCBI_TaxID=5664;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Ch'ang L.Y., Lee T.;
 RL Submitted (DEC-1998) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AF110672; AAF66093.1; -
 DR GO; GO:0019861; C:flagellum; IEA.
 KW Flagellum.
 FT NON_TER 1
 FT NON_TER 27
 SQ SEQUENCE 27 AA; 3005 MW; 0C5ADB2B6B425ED9 CRC64;
 Query Match 23.5%; Score 31; DB 2; Length 27;
 Best Local Similarity 53.8%; Pred. No. 9.1e+03;
 Matches 7; Conservative 2; Mismatches 4; Indels 0; Gaps 0;
 QY 2 IAAKQKTASLKQ 14
 Db :|||: :|||: |||
 1 IVALKKTLLNLKQ 13
 RESULT 12
 O65311 PRELIMINARY; PRT; 28 AA.
 AC O65311;
 DT 01-AUG-1998 (TrEMBLrel. 07, Created)
 DT 01-AUG-1998 (TrEMBLrel. 07, Last sequence update)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE Beta-9 tubulin (Fragment).
 GN Name-TUB9;
 OS Arabidopsis thaliana (Mouse-ear cress).
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;
 OC eurosids II; Brassicales; Brassicaceae; Arabidopsi.
 OX NCBI_TaxID=3702;

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RN SEQUENCE FROM N.A.
RP Sanders P.M., Bui A.O., Weterings K., McIntire K.N., Hau Y.C.,
RA Lee P.Y., Truong M.T., Beals T.B., Goldberg R.B.;
RT "Anther Development Defects in Arabidopsis thaliana Male-Sterile
RT Mutants.";
RL Sex. Plant Reprod. 11:297-322(1999).
DR EMBL; AF060248; AAC97107.1; -.
FT NON_TER 1
SQ SEQUENCE 28 AA; 3388 MW; 8060B4E537B5670E CRC64;

Query Match 22.7%; Score 30; DB 2; Length 28;
Best Local Similarity 37.5%; Pred. No. 1.2e+04;
Matches 9; Conservative 3; Mismatches 8; Indels 4; Gaps 1;

QY 9 IASLKQEIIDL---EYENDALEQ 28
DB 3 VAEYQYQDATVGEYEEDEEE 26

RESULT 13
QY7M137
ID Q7M137 PRELIMINARY; PRT; 16 AA.
AC Q7M137;
DT 01-MAR-2004 (Tremblrel. 26, Created)
DT 01-MAR-2004 (Tremblrel. 26, Last sequence update)
DT 01-MAR-2004 (Tremblrel. 26, Last annotation update)
DE Superoxide dismutase (EC 1.15.1.1) (Fragment).
OS Unidentified bacterium.
OC Bacteria; environmental samples.
OX NCBI_TaxID=2338;
RN SEQUENCE.
RA Binette J.P., Binette M.B.;
RL Submitted (OCT-1996) to the PIR data bank.
CC -!- FUNCTION: Destroys radicals which are normally produced within the
CC cells and which are toxic to biological systems (By similarity).
CC -!- CATALYTIC ACTIVITY: 2 superoxide + 2 H(+) = O(2) + H(2)O(2).
CC -!- SIMILARITY: Belongs to the iron/manganese superoxide dismutase
CC family.
DR PIR; E58503; E58503.
DR GO; GO:0046872; F:metal ion binding; IEA.
DR GO; GO:0016491; F:oxidoreductase activity; IEA.
DR GO; GO:0004784; F:superoxide dismutase activity; IEA.
DR GO; GO:0006801; P:superoxide metabolism; IEA.
DR InterPro; IPR001189; SODismutase.
DR Pfam; PF00081; Sod_Fe_N; 1.
KW Oxidoreductase.
FT NON_TER 16
SQ SEQUENCE 16 AA; 1828 MW; 12DE78949AC43609 CRC64;

Query Match 22.0%; Score 29; DB 2; Length 16;
Best Local Similarity 40.0%; Pred. No. 9.5e+03;
Matches 6; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 12 LKQEIDALEYENDAL 26
DB 1 MEHTLPLPYENDAL 15

RESULT 14
OXLA OPHHA STANDARD; PRT; 19 AA.
AC P81383;
DT 15-DEC-1998 (Rel. 37, Created)
DT 15-JUL-1999 (Rel. 38, Last sequence update)
DT 25-OCT-2004 (Rel. 45, Last annotation update)
DE L-amino-acid oxidase (EC 1.4.3.2) (LAO) (LAO) (Fragment).
OS Ophiophagus hannah (King cobra) (Naja hannah).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Lepidodactylia; Squamata; Scleroglossa; Serpentes; Colubroidea;
OC Elapidae; Elapinae; Ophiophagus.
OX NCBI_TaxID=8665;
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RN SEQUENCE.
RP TISSUE=Venom;
RC MEDLINE=94361525; PubMed=8080286; DOI=10.1006/abbi.1994.1401;
EX Ponnudurai G., Chung M.C.M., Tan N.-H.;
RA "Purification and properties of the L-amino acid oxidase from Malayan
RT pit viper (Calloselasma rhodostoma) venom.";
RL Arch. Biochem. Biophys. 313:373-378(1994).
RN [2]
RP SEQUENCE OF 1-15.
RC TISSUE=Venom;
RX MEDLINE=97449790; PubMed=9304806; DOI=10.1016/S1357-2725(97)00024-1;
RA Ahn M.Y., Lee B.M., Kim Y.S.;
RT "Characterization and cytotoxicity of L-amino acid oxidase from the
RT venom of king cobra (Ophiophagus hannah).";
RL Int. J. Biochem. Cell Biol. 29:911-919(1997).
CC -!- FUNCTION: Has cytotoxic activity (By similarity).
CC -!- CATALYTIC ACTIVITY: An L-amino acid + H(2)O + O(2) = a 2-oxo acid
CC + NH(3) + H(2)O(2).
CC -!- COFACTOR: FAD.
CC -!- SUBUNIT: Homodimer (Probable).
CC -!- PTM: Glycosylated.
CC -!- SIMILARITY: Belongs to the flavin monoamine oxidase family.
CC Strong, to mammalian Fgl.
KW Direct protein sequencing; FAD; Flavoprotein; Glycoprotein;
KW Oxidoreductase; Toxin.
FT CONFLICT 1 H -> S (in Ref. 2).
FT NON_TER 19
SQ SEQUENCE 19 AA; 2298 MW; DD911ASB414F1427 CRC64;

Query Match 22.0%; Score 29; DB 1; Length 19;
Best Local Similarity 33.3%; Pred. No. 1.1e+04;
Matches 5; Conservative 4; Mismatches 6; Indels 0; Gaps 0;

QY 9 IASLKQEIDALEYEN 23
DB 2 VINLEESQPEYEN 16

RESULT 15
QY7M028
ID Q7M028 PRELIMINARY; PRT; 22 AA.
AC Q7M028;
DT 01-MAR-2004 (Tremblrel. 26, Created)
DT 01-MAR-2004 (Tremblrel. 26, Last sequence update)
DT 01-MAR-2004 (Tremblrel. 26, Last annotation update)
DE Ribosomal protein L30 (Fragment).
OS Nocardia asteroides.
OC Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
OC Corynebacterineae; Nocardaceae; Nocardia.
OX NCBI_TaxID=1824;
RN [1]
RP SEQUENCE.
RA Ochi K.;
RL Submitted (FEB-1994) to the PIR data bank.
DR PIR; JP0066; JP0066.
FT NON_TER 1
FT NON_TER 22
SQ SEQUENCE 22 AA; 2330 MW; 5C7E71FB6FD577CA CRC64;

Query Match 22.0%; Score 29; DB 2; Length 22;
Best Local Similarity 31.6%; Pred. No. 1.3e+04;
Matches 6; Conservative 4; Mismatches 9; Indels 0; Gaps 0;

QY 8 KIASLKQEIDALEYENDAL 26
DB 4 KVTQIKSTIGAKNQKDSL 22

Search completed: April 27, 2005, 15:06:16
Job time : 122 secs
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OM protein - protein search, using sw model

Run on: April 27, 2005, 14:45:41 ; Search time 122 Seconds
(without alignments)
88.765 Million cell updates/sec

Title: US-10-088-417A-4

Perfect score: 137
Sequence: 1 KIRALKWNAHLKQEIQAALQEQIALEQ 28

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 794064

Minimum DB seq length: 0
Maximum DB seq length: 28

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_Geneseq_16Dec04:*

- 1: Geneseqp1980s:*
- 2: Geneseqp1990s:*
- 3: Geneseqp2000s:*
- 4: Geneseqp2001s:*
- 5: Geneseqp2002s:*
- 6: Geneseqp2003as:*
- 7: Geneseqp2003bs:*
- 8: Geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	137	100.0	28	4	Aab74346 Peptide S
2	137	100.0	28	4	Aab74347 Peptide S
3	124	90.5	28	4	Aab74349 Peptide S
4	123	89.8	28	4	Aab74348 Peptide S
5	123	89.8	28	4	Aab74356 Peptide u
6	123	89.8	28	4	Aab74352 Peptide S
7	122	89.1	28	4	Aab74345 Peptide S
8	105	76.6	28	8	ADM41438 Self-asse
9	100	73.0	27	8	ADM41437 Self-asse
10	81	59.1	28	7	ABR84737 DE novo d
11	75	54.7	28	4	Aab74343 Peptide S
12	75	54.7	28	4	Aab74351 Peptide S
13	75	54.7	28	8	ADM41436 Self-asse
14	74	54.0	28	4	Aab74341 Peptide S
15	74	54.0	28	4	Aab74342 Peptide S
16	70	51.1	28	4	Aab74355 Peptide u
17	70	51.1	28	4	Aab74350 Peptide S
18	68	49.6	25	3	Aab08382 Peptide u
19	59	43.1	28	7	ABR84735 DE novo d
20	55	40.1	18	4	Aab74340 Peptide C
21	55	40.1	25	3	Aab08381 Peptide u
22	54	39.4	28	7	ABR84736 DE novo d
23	51	37.2	24	3	ABD21683 Coiled co
24	51	37.2	24	7	ADD93917 Coiled co
25	50	36.5	23	3	Aab08388 Peptide u

26	50	36.5	23	6	ADA00699	Ada00699 Protein m
27	47	34.3	14	2	AAW71411	Aaw71411 Peptide f
28	47	34.3	14	2	AAW80528	Aaw80528 Beta-shee
29	47	34.3	15	2	AAW71417	Aaw71417 Peptide f
30	47	34.3	15	2	AAW80545	Aaw80545 Peptide h
31	47	34.3	17	2	AAW71423	Aaw71423 Peptide h
32	47	34.3	21	5	ABG78944	Abg78944 Human tum
33	47	34.3	21	6	ABJ37799	Abj37799 Human tum
34	47	34.3	21	6	ABJ37767	Abj37767 Human tum
35	47	34.3	21	7	ADL93196	Adl93196 Human bre
36	47	34.3	21	7	ADL93249	Adl93249 Human bre
37	46	33.6	17	4	AAW74344	Aaw74344 Peptide C
38	45	32.8	28	4	AAU14021	Aau14021 Peptide s
39	45	32.8	28	6	ABO10240	Abol10240 Heptad re
40	45	32.8	28	7	ADB67071	Adb67071 Canonical
41	45	32.8	28	8	ADL99341	Adl99341 Nanostruc
42	44	32.1	24	3	AAV95963	Aay95963 Coiled-co
43	44	32.1	28	2	AAR31979	Aar31979 SSP4 poly
44	43	31.4	14	7	ADI39146	Adi39146 Amphipath
45	43	31.4	20	6	ABJ37808	Abj37808 Human tum

ALIGNMENTS

RESULT 1
AAB74346
ID AAB74346 standard; peptide; 28 AA.
XX AC AAB74346;

DT 02-JUL-2001 (first entry)

DE Peptide SAF-p2B.

KW Atomic Force Microscopy; AFM.

OS Unidentified.

PN WO200121646-A1.

PD 29-MAR-2001.

PF 18-SEP-2000; 2000WO-GB003576.

PR 17-SEP-1999; 99GB-00022013.

PA (UYSU-) UNIV SUSSEX.

PI Woolfson DN, Walshaw J, Pandya MJ, Colyer J;

DR WPI, 2001-335468/35.

PT New protein structures with peptide monomer units, useful in Atomic Force Microscopy, purifying biological fluids, promoting tissue repair and tissue engineering, or constructing nanoscale molecular sieves.

PS Disclosure; Page 9; 45pp; English.

XX The present invention relates to a protein structure with several first peptide monomer units arranged in a first strand and several second peptide monomer units arranged in a second strand. The structure is useful in Atomic Force Microscopy and a number of other applications. The present sequence is the peptide monomer unit SAF-p2B

SQ Sequence 28 AA;

Query Match 100.0%; Score 137; DB 4; Length 28;

Best Local Similarity 100.0%; Pred. No. 3.2e-11;

Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KIRALKWNAHLKQEIQAALQEQIALEQ 28

|||||

Db 1 KIRALKWNAHLKQEIATIALEQ 28

RESULT 2

AAB74347

ID AAB74347 standard; peptide; 28 AA.

AC AAB74347;

XX 02-JUL-2001 (first entry)

XX Peptide SAF-p2C.

XX Atomic Force Microscopy; AFM.

XX Unidentified.

XX WO200121646-A1.

XX 29-MAR-2001.

XX 18-SEP-2000; 2000WO-GB003576.

XX 17-SEP-1999; 99GB-00022013.

XX (UYSU-) UNIV SUSSEX.

PI Woolfson DN, Walshaw J, Pandya MJ, Colyer J;

XX WPI; 2001-335468/35.

XX New protein structures with peptide monomer units, useful in Atomic Force

XX Microscopy, purifying biological fluids, promoting tissue repair and

XX tissue engineering, or constructing nanoscale molecular sieves.

XX Claim 16; Page 26; 45pp; English.

XX The present invention relates to a protein structure with several first

XX peptide monomer units arranged in a first strand and several second

XX peptide monomer units arranged in a second strand. The structure is

XX useful in Atomic Force Microscopy and a number of other applications. The

XX present sequence is the peptide monomer unit SAF-p2C

XX Sequence 28 AA;

Query Match 100.0%; Score 137; DB 4; Length 28;

Best Local Similarity 100.0%; Pred. No. 3.2e-11;

Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KIRALKWNAHLKQEIATIALEQ 28

DB 1 KIRALKWNAHLKQEIATIALEQ 28

AC AAB74349;

XX 02-JUL-2001 (first entry)

XX Peptide SAF-p2E.

XX Atomic Force Microscopy; AFM.

XX Unidentified.

XX WO200121646-A1.

XX 29-MAR-2001.

XX 18-SEP-2000; 2000WO-GB003576.

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XX 17-SEP-1999; 99GB-00022013.
PR (UYSU-) UNIV SUSSEX.
XX Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
XX WPI; 2001-335468/35.
XX New protein structures with peptide monomer units, useful in Atomic Force
XX Microscopy, purifying biological fluids, promoting tissue repair and
XX tissue engineering, or constructing nanoscale molecular sieves.
XX Disclosure; Page 9; 45pp; English.
XX The present invention relates to a protein structure with several first
XX peptide monomer units arranged in a first strand and several second
XX peptide monomer units arranged in a second strand. The structure is
XX useful in Atomic Force Microscopy and a number of other applications. The
XX present sequence is the peptide monomer unit SAF-p2E
XX Sequence 28 AA;

Query Match 90.5%; Score 124; DB 4; Length 28;
Best Local Similarity 96.4%; Pred. No. 1.7e-09;
Matches 27; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KIRALKWNAHLKQEIATIALEQ 28

DB 1 KIRALKWNAHLKQEIATIALEQ 28

AC AAB74348;

XX 02-JUL-2001 (first entry)

XX Peptide SAF-p2D.

XX Atomic Force Microscopy; AFM.

XX Unidentified.

XX WO200121646-A1.

XX 29-MAR-2001.

XX 18-SEP-2000; 2000WO-GB003576.

XX 17-SEP-1999; 99GB-00022013.

XX (UYSU-) UNIV SUSSEX.

XX Woolfson DN, Walshaw J, Pandya MJ, Colyer J;

XX WPI; 2001-335468/35.

XX New protein structures with peptide monomer units, useful in Atomic Force

XX Microscopy, purifying biological fluids, promoting tissue repair and

XX tissue engineering, or constructing nanoscale molecular sieves.

XX Disclosure; Page 9; 45pp; English.

XX The present invention relates to a protein structure with several first

XX peptide monomer units arranged in a first strand and several second

XX peptide monomer units arranged in a second strand. The structure is

XX useful in Atomic Force Microscopy and a number of other applications. The

XX present sequence is the peptide monomer unit SAF-p2D

XX Sequence 28 AA;

Query Match 100.0%; Score 137; DB 4; Length 28;

Best Local Similarity 100.0%; Pred. No. 3.2e-11;

Matches 28; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 KIRALKWNAHLKQEIATIALEQ 28

DB 1 KIRALKWNAHLKQEIATIALEQ 28

AC AAB74349;

XX 02-JUL-2001 (first entry)

XX Peptide SAF-p2E.

XX Atomic Force Microscopy; AFM.

XX Unidentified.

XX WO200121646-A1.

XX 29-MAR-2001.

XX 18-SEP-2000; 2000WO-GB003576.

XX

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XX

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Query Match      89.8%; Score 123; DB 4; Length 28;
Best Local Similarity 96.4%; Pred. No. 2.4e-09;
Matches 27; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KIRALKKQNAHLKQEIATALEQSIAALEQ 28
   ||||| ||||| ||||| ||||| |||||
DB 1 KIRALKKQNAHLKQEIATALEQSIAALEQ 28

RESULT 5
AAB74352
ID AAB74352 standard; peptide; 28 AA.
XX AAB74352;
XX
XX 02-JUL-2001 (first entry)
XX
XX Peptide used to form blunt-ended heterodimers.
XX Atomic Force Microscopy; AFM.
XX Unidentified.
XX
XX WO200121646-A1.
XX
XX 29-MAR-2001.
XX
XX 18-SEP-2000; 2000WO-GB003576.
XX
XX 17-SEP-1999; 99GB-00022013.
XX (UYSU-) UNIV SUSSEX.
XX
XX Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
XX WPI; 2001-335468/35.
XX
XX New protein structures with peptide monomer units, useful in Atomic Force
XX Microscopy, purifying biological fluids, promoting tissue repair and
XX tissue engineering, or constructing nanoscale molecular sieves.
XX
XX Claim 16; Page 26; 45pp; English.
XX
XX The present invention relates to a protein structure with several first
XX peptide monomer units arranged in a first strand and several second
XX peptide monomer units arranged in a second strand. The structure is
XX useful in Atomic Force Microscopy and a number of other applications. The
XX present sequence is the peptide monomer unit SAF-p2
XX
XX Sequence 28 AA;

Query Match      89.8%; Score 123; DB 4; Length 28;
Best Local Similarity 96.4%; Pred. No. 2.4e-09;
Matches 27; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KIRALKKQNAHLKQEIATALEQSIAALEQ 28
   ||||| ||||| ||||| ||||| |||||
DB 1 KIRALKKQNAHLKQEIATALEQSIAALEQ 28

RESULT 6
AAB74352
ID AAB74352 standard; peptide; 28 AA.
XX AAB74352;
XX
XX 02-JUL-2001 (first entry)
XX
XX Peptide SAF-p2.
XX Atomic Force Microscopy; AFM.
XX
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OS Unidentified.
XX WO200121646-A1.
XX
XX 29-MAR-2001.
XX
XX 18-SEP-2000; 2000WO-GB003576.
XX
XX 17-SEP-1999; 99GB-00022013.
XX (UYSU-) UNIV SUSSEX.
XX
XX Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
XX WPI; 2001-335468/35.
XX
XX New protein structures with peptide monomer units, useful in Atomic Force
XX Microscopy, purifying biological fluids, promoting tissue repair and
XX tissue engineering, or constructing nanoscale molecular sieves.
XX
XX Claim 16; Page 26; 45pp; English.
XX
XX The present invention relates to a protein structure with several first
XX peptide monomer units arranged in a first strand and several second
XX peptide monomer units arranged in a second strand. The structure is
XX useful in Atomic Force Microscopy and a number of other applications. The
XX present sequence is the peptide monomer unit SAF-p2
XX
XX Sequence 28 AA;

Query Match      89.8%; Score 123; DB 4; Length 28;
Best Local Similarity 96.4%; Pred. No. 2.4e-09;
Matches 27; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KIRALKKQNAHLKQEIATALEQSIAALEQ 28
   ||||| ||||| ||||| ||||| |||||
DB 1 KIRALKKQNAHLKQEIATALEQSIAALEQ 28

RESULT 7
AAB74345
ID AAB74345 standard; peptide; 28 AA.
XX AAB74345;
XX
XX 02-JUL-2001 (first entry)
XX
XX Peptide SAF-p2A.
XX Atomic Force Microscopy; AFM.
XX
XX Unidentified.
XX
XX WO200121646-A1.
XX
XX 29-MAR-2001.
XX
XX 18-SEP-2000; 2000WO-GB003576.
XX
XX 17-SEP-1999; 99GB-00022013.
XX (UYSU-) UNIV SUSSEX.
XX
XX Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
XX WPI; 2001-335468/35.
XX
XX New protein structures with peptide monomer units, useful in Atomic Force
XX Microscopy, purifying biological fluids, promoting tissue repair and
XX tissue engineering, or constructing nanoscale molecular sieves.
XX
XX Disclosure; Page 9; 45pp; English.
XX
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CC The present invention relates to a protein structure with several first
CC peptide monomer units arranged in a first strand and several second
CC peptide monomer units arranged in a second strand. The structure is
CC useful in Atomic Force Microscopy and a number of other applications. The
CC present sequence is the peptide monomer unit SAP-p2A
SQ Sequence 28 AA;

Query Match 89.1%; Score 122; DB 4; Length 28;
Best Local Similarity 92.9%; Pred. No. 3.2e-09;
Matches 26; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 KIRALKKQNAHLKQETAALEQETAALEQ 28
DB 1 KISALKKQNAHLKQETAALEQETAALEQ 28

RESULT 8
ADM41438.
ID ADM41438 standard; peptide; 28 AA.
XX ADM41438;
DT 03-JUN-2004 (first entry)
XX Self-assembling peptide fibre SAP-p2a.
DE Fibre-shaping peptide; self-assembling peptide.
KW Synthetic.
XX Key Location/Qualifiers
FH Modified-site 1 /note= "N-terminal NH3 moiety"
FT WO2004022584-A1.
XX 18-MAR-2004.
PD 08-SEP-2003; 2003WO-GB003900.
PF 06-SEP-2002; 2002GB-00020805.
PR (UYSU-) UNIV SUSSEX.
XX Woolfson D, Ryadnov MG;
PI WPI; 2004-248444/23.
XX Novel fiber-shaping peptide comprising hub and several peptide monomer
PT units, useful for producing protein structure useful in purification of
PT biological fluids and in surface engineering procedures.
XX Example 36; Page 22; 37pp; English.

CC The present sequence is that of self-assembling peptide fibre (SAP) SAF-
CC p2a. The invention relates to fibre-shaping (Fish) peptides ADM41434-
CC ADM41435 that are capable of interacting with SAFs to form protein
CC structures. The Fish peptides allow morphological changes (branches,
CC splits, kinks and bends) to be made to protein fibres comprising SAFs. By
CC incorporating such morphological changes in the protein fibres, it is
CC possible to generate a variety of (nanoscale) protein structures, such as
CC assemblies in general, including matrix, filter, network, grid and
CC scaffold structures. Use of the protein structures in the purification of
CC biological fluids, for assembling cells for cell and tissue engineering,
CC and in surface engineering procedures is claimed.

SQ Sequence 28 AA;
Query Match 76.6%; Score 105; DB 8; Length 28;
Best Local Similarity 85.7%; Pred. No. 5.9e-07;
Matches 24; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 KIRALKKQNAHLKQETAALEQETAALEQ 28
DB 1 KIRRLKQKNARLKQETAALEYEIAALEQ 28

RESULT 9
ADM41437
ID ADM41437 standard; peptide; 27 AA.
XX ADM41437;
AC 03-JUN-2004 (first entry)
DT Self-assembling peptide fibre (SAF).
XX Fibre-shaping peptide; self-assembling peptide.
KW Synthetic.
XX Key Location/Qualifiers
FH Modified-site 1 /note= "N-terminal NH3 moiety"
FT WO2004022584-A1.
XX 18-MAR-2004.
PD 08-SEP-2003; 2003WO-GB003900.
PF 06-SEP-2002; 2002GB-00020805.
PR (UYSU-) UNIV SUSSEX.
XX Woolfson D, Ryadnov MG;
PI WPI; 2004-248444/23.
XX Novel fiber-shaping peptide comprising hub and several peptide monomer
PT units, useful for producing protein structure useful in purification of
PT biological fluids and in surface engineering procedures.
XX Example 30; Page 22; 37pp; English.

CC The present sequence is that of a self-assembling peptide fibre (SAF).
CC The invention relates to fibre-shaping (Fish) peptides ADM41434-ADM41435
CC that are capable of interacting with SAFs to form protein structures. The
CC Fish peptides allow morphological changes (branches, splits, kinks and
CC bends) to be made to protein fibres comprising SAFs. By incorporating
CC such morphological changes in the protein fibres, it is possible to
CC generate a variety of (nanoscale) protein structures, such as assemblies
CC in general, including matrix, filter, network, grid and scaffold
CC structures. Use of the protein structures in the purification of
CC biological fluids, for assembling cells for cell and tissue engineering,
CC and in surface engineering procedures is claimed.

SQ Sequence 27 AA;
Query Match 73.0%; Score 100; DB 8; Length 27;
Best Local Similarity 85.2%; Pred. No. 2.7e-06;
Matches 23; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 IRALKKQNAHLKQETAALEQETAALEQ 28
DB 1 IRRLLKQKNARLKQETAALEYEIAALEQ 27

RESULT 10
ABR84737
ID ABR84737 standard; peptide; 28 AA.
XX ABR84737;
AC 18-DEC-2003 (first entry)
DT

XX DE DE novo designed AHEC peptide #5.
XX Antibody Fv chain; stabilisation; assembly; alpha-helical coiled-coil;
KW AHEC; antiparallel; drug targeting.
XX Synthetic.
OS
XX WO2003066660-A2.
XX
XX 14-AUG-2003.
XX
XX 05-FEB-2003; 2003WO-EP001217.
XX
XX 05-FEB-2002; 2002US-0354376P.
XX
XX (IMMU-) IMMUNOLEX THERAPEUTICS APS.
XX
XX Caterer NR, Uttental LO, Neilson RW;
XX
XX WPI; 2003-679535/64.
XX
XX Composition useful for forming therapeutic antibodies and antibody
PT fragments comprises pair of antibody Fv fragments linked and stabilized
PT by antiparallel heterogeneous alpha-helical coiled-coil peptides.
XX
XX Disclosure; Page 14; 35pp; English.
XX
XX The present invention relates to a composition which comprises a pair of
CC antibody Fv fragments linked and stabilised by antiparallel heterogeneous
CC alpha-helical coiled-coil (AHEC) peptides. The composition is used to
CC form multimeric complexes and therapeutic antibodies and antibody
CC fragments useful for e.g. inhibition of receptor binding and the
CC targeting of drugs, toxins and labels in research, industry and
CC healthcare. The present sequence is an AHEC peptide used in the
CC exemplification of the invention
XX
XX Sequence 28 AA;
SQ
Query Match 59.1%; Score 81; DB 7; Length 28;
Best Local Similarity 64.0%; Pred. No. 0.00095;
Matches 16; Conservative 6; Mismatches 3; Indels 0; Gaps 0;
QY 4 ALKWKNAHLKQEIQAIALEQ 28
Db 1 ALKYKQAIAKNEIAIKQEIQAIEQ 25
RESULT 11
AAB74343
ID AAB74343 standard; peptide; 28 AA.
XX
XX AAB74343;
AC
XX
XX 02-JUL-2001 (first entry)
DT
XX Peptide SAF-pic.
DE
XX Atomic Force Microscopy; AFM.
KW
XX Unidentified.
OS
XX WO200121646-A1.
PN
XX 29-MAR-2001.
PD
XX 18-SEP-2000; 2000WO-GB003576.
PF
XX 17-SEP-1999; 99GB-00022013.
PR
XX (UYSU-) UNIV SUSSEX.
PA
XX Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
PI

XX WPI; 2001-335468/35.
DR
XX New protein structures with peptide monomer units, useful in Atomic Force
PT Microscopy, purifying biological fluids, promoting tissue repair and
PT tissue engineering, or constructing nanoscale molecular sieves.
XX
XX Claim 16; Page 26; 45pp; English.
PS
XX The present invention relates to a protein structure with several first
CC peptide monomer units arranged in a first strand and several second
CC peptide monomer units arranged in a second strand. The structure is
CC useful in Atomic Force Microscopy and a number of other applications. The
CC present sequence is the peptide monomer unit SAF-plc
XX
XX Sequence 28 AA;
SQ
Query Match 54.7%; Score 75; DB 4; Length 28;
Best Local Similarity 71.4%; Pred. No. 0.006;
Matches 20; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
QY 1 KIRALKWNAHLKQEIQAIALEQ 28
Db 1 KIRALKQKIASLKQEIQAIALEQ 28
RESULT 12
AAB74351
ID AAB74351 standard; peptide; 28 AA.
XX
XX AAB74351;
AC
XX 02-JUL-2001 (first entry)
DT
XX Peptide SAF-pl.
DE
XX Atomic Force Microscopy; AFM.
KW
XX Unidentified.
OS
XX WO200121646-A1.
PN
XX 29-MAR-2001.
PD
XX 18-SEP-2000; 2000WO-GB003576.
PF
XX 17-SEP-1999; 99GB-00022013.
PR
XX (UYSU-) UNIV SUSSEX.
PA
XX Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
PI
XX WPI; 2001-335468/35.
DR
XX New protein structures with peptide monomer units, useful in Atomic Force
PT Microscopy, purifying biological fluids, promoting tissue repair and
PT tissue engineering, or constructing nanoscale molecular sieves.
XX
XX Claim 16; Page 26; 45pp; English.
PS
XX The present invention relates to a protein structure with several first
CC peptide monomer units arranged in a first strand and several second
CC peptide monomer units arranged in a second strand. The structure is
CC useful in Atomic Force Microscopy and a number of other applications. The
CC present sequence is the peptide monomer unit SAF-pl
XX
XX Sequence 28 AA;
SQ
Query Match 54.7%; Score 75; DB 4; Length 28;
Best Local Similarity 71.4%; Pred. No. 0.006;
Matches 20; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
QY 1 KIRALKWNAHLKQEIQAIALEQ 28
Db 1 KIRALKQKIASLKQEIQAIALEQ 28
RESULT 12
AAB74351
ID AAB74351 standard; peptide; 28 AA.
XX
XX AAB74351;
AC
XX 02-JUL-2001 (first entry)
DT
XX Peptide SAF-pl.
DE
XX Atomic Force Microscopy; AFM.
KW
XX Unidentified.
OS
XX WO200121646-A1.
PN
XX 29-MAR-2001.
PD
XX 18-SEP-2000; 2000WO-GB003576.
PF
XX 17-SEP-1999; 99GB-00022013.
PR
XX (UYSU-) UNIV SUSSEX.
PA
XX Woolfson DN, Walshaw J, Pandya MJ, Colyer J;
PI

PT tissue engineering, or constructing nanoscale molecular sieves.

XX

PS

XX Disclosure; Page 9; 45pp; English.

XX

CC The present invention relates to a protein structure with several first
CC peptide monomer units arranged in a first strand and several second
CC peptide monomer units arranged in a second strand. The structure is
CC useful in Atomic Force Microscopy and a number of other applications. The
CC present sequence is the peptide monomer unit SAF-plB

XX

SQ Sequence 28 AA;

Query Match

Best Local Similarity 54.0%; Score 74; DB 4; Length 28;

Matches 20; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

OY

1 KIRALKKNAHLKQETIALEQ 28

Db

1 KIALKQKIALKQETIALEQ 28

Search completed: April 27, 2005, 15:02:16

Job time : 123 secs

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Result No.	Score	Query			DB	ID	Description
		Match	Length	\$			
1	36	26.3	25	2	S39391	calpain II heavy c	
2	32	23.4	23	2	S23518	stromelysin (EC 3.	
3	31	22.6	16	2	S37290	homeotic protein G	
4	31	22.6	21	2	I65270	collagen alpha 1(I)	
5	30	21.9	22	2	B35372	unidentified low M	
6	29	21.2	24	2	A33262	heparin-binding gr	
7	29	21.2	24	2	I38253	T-cell acute lymph	
8	28.5	20.8	20	2	A53592	H+-exporting ATPas	
9	28	20.4	19	2	S09495	hemocyanin chain I	
10	28	20.4	24	2	C47689	flagellar core pro	
11	28	20.4	27	2	G61002	transformation-sen	
12	27	19.7	21	2	A59325	probable bacterioph	
13	26.5	19.3	27	2	PQ0844	DNA-binding protei	
14	26	19.0	15	2	PA0036	glycine cleavage s	
15	26	19.0	19	2	FN0467	nitrogenase (EC 1.	
16	26	19.0	20	2	B46236	transforming prote	
17	26	19.0	25	2	B47689	flagellar core pro	
18	25	18.2	20	2	A43405	6-phosphofructo-2-	
19	25	18.2	20	2	S35970	ribosomal protein	
20	25	18.2	21	2	S35978	ribosomal protein	
21	25	18.2	23	2	S35975	ribosomal protein	
22	25	18.2	23	2	S35976	ribosomal protein	
23	25	18.2	24	2	I46513	troponin I - rabbi	
24	25	18.2	25	1	JC4278	ribosomal protein	
25	25	18.2	25	2	QJ1617	ribosomal protein	
26	25	18.2	25	2	JC4685	ribosomal protein	
27	25	18.2	25	2	S38425	ribosomal protein	
28	25	18.2	25	2	T49214	ribosomal protein	
29	25	18.2	25	2	T06233	ribosomal protein	

RESULTS

E37290
homeotic protein Gsh-5 - mouse (fragment)
C:Species: Mus musculus (house mouse)
C:Date: 17-Jan-1992 #sequence_revision 17-Jan-1992 #text_change 16-Aug-2004
C:Accession: E37290; E38809
R:Singh, G.; Kaur, S.; Stock, J.L.; Jenkins, N.A.; Gilbert, D.J.; Copeland, N.G.; Potten
Proc. Natl. Acad. Sci. U.S.A. 88, 10706-10710, 1991
A:title: Identification of 10 murine homeobox genes.
A:Reference number: A37290; MUID:92073356; PMID:1683707
A:Accession: E37290
A:Status: preliminary; not compared with conceptual translation
A:Molecule type: DNA
A:Residues: 1-16 <SIN>
C:Superfamily: homeobox homology
C:Keywords: DNA binding; homeobox; nucleus; transcription regulation
F:1-14/Domain: homeobox homology (fragment) <HOX>

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Query Match      22.6%; Score 31; DB 2; Length 16;
Best Local Similarity 50.0%; Pred. No. 4.6e+02;
Matches      4: Conservative      3: Mismatches      1: Indels      0: Gaps      0:
```

Qy 3 RALKWKNA 10
| : | : | :
D'b 8 RRMKWRNS 15

RESULT 4

I65270 collagen alpha 1(I) chain - rat (fragment)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change 09-Jul-2004
C;Accession: I65270
R;Genovese, C.; Rowe, D.; Kream, B.
Biochemistry 23, 6210-6216, 1984
A;Title: Construction of DNA sequences complementary to rat alpha-1 and alpha-2 collagen
A;Reference number: I52392; MUID:85122694; PMID:6395893
A;Accession: I65270
A;Status: preliminary; translated from GB/EMBL/DBDJ
A;Molecule type: mRNA
A;Residues: 1-21 <RES>
A;Cross-references: UNIPROT:Q63076; GB:M12200; NID:g203191; PID:AAA40835.1; PID:g203195
C;Superfamily: collagen alpha 2(I) chain; fibrillar collagen carboxyl-terminal homology

Query Match 22.6%; Score 31; DB 2; Length 21;
Best Local Similarity 50.0%; Pred. No. 6.1e+02;
Matches 6: Conservative 2; Mismatches 4; Indels 0; Gaps 0;

Qy 11 H L K Q E I A A L E Q E 22
| | | | | : : |
Dh 8 H C K N S I A Y L D E E 19

RESULTS 5

B35372
unidentified low M-r protein - Yersinia pseudotuberculosis (fragment)
C:Species: Yersinia pseudotuberculosis
C:Date: 17-Aug-1990 #sequence_revision 17-Aug-1990 #text_change 09-Jul-2004
C:Accession: B35372
R:Han, O.; Miller, V.P.; Liu, H.
J. Biol. Chem. 265, 8033-8041, 1990
A:Title: Mechanistic studies of the biosynthesis of 3,6-dideoxyhexoses in Yersinia pseudotuberculosis
H:1,4-chlorophenolindolphenol oxidoreductase activity.
A:Reference number: A35372; MUID:90243678; PMID:2159466
A:Accession: B35372
A:Status: preliminary
A:Molecule type: protein
A:Residues: 1-22 <HAN>
A:Cross-references: UNIPROT:Q7M0N2

Query Match . 21.9%; Score 30; DB 2; Length 22;
Best Local Similarity 70.0%; Pred. No. 8.7e+02;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy	17	A A L E Q E I A A L	26
		:	
Db	6	A A L V K E L A A L	15

RESULT 6

A33262
heparin-binding growth factor A light chain - rabbit (fragment)
C:Species: *Oryctolagus cuniculus* (domestic rabbit)
C>Date: 21-Feb-1990 #sequence_revision 21-Feb-1990 #text_change 09-Jul-2004
C:Accession: A33262
R:Zarnegar, R.; Muga, S.; Enghild, J.; Michalopoulos, G.
Biochem. Biophys. Res. Commun. 163, 1370-1376, 1989
A:Title: NH-2-terminal amino acid sequence of rabbit hepatopoietin A, a heparin-binding growth factor
A:Reference number: A33262, MUID:89392048; PMID:2528955
A:Accession: A33262
A:Status: preliminary
A:Molecule type: protein
A:Residues: 1-24 <ZAR>
A:Cross-references: UNIPROT:P13571
C:Superfamily: hepatocyte growth factor/macrophage stimulating protein 1; K
C:Keywords: growth factor; heparin binding; kringle

Query Match	21.2%	Score 29;	DB 2;	Length 24;
Best Local Similarity	44.4%	Pred. No. 1.3e+03;		
Matches 4:	Conservative	4: Mismatches 1;	Indels 0;	Gaps 0;

Qy 4 ALKWKNAHL 12
:|:|:|:|:
Db 16 SLKYRNKHI 24

RESULT 7

I38253
 T-cell acute lymphocytic leukemia 1 protein - human (fragment)
 C:Species: Homo sapiens (man)
 C>Date: 06-Sep-1996 #sequence_revision 06-Sep-1996 #text_change 05-Nov-1999
 C:Accession: I38253
 R:Chen, Q.; Yang, C.Y.; Tean, J.T.; Xia, Y.; Ragab, A.H.; Peiper, S.C.; Carr
 J. Exp. Med. 172, 1403-1408, 1990
 A>Title: Coding sequences of the tal-1 gene are disrupted by chromosome tra
 A:Reference number: I38253; MUID:91037802; PMID:2230650
 A:Accession: I38253
 A>Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 1-24 <RES>
 A:Cross-references: EMBL:X58621; NID:G36683; PIDN:CAA41476.1; PID:G36684
 C:Genetics:
 A:Gene: GDB:TAL1; SCL; TCL5
 A:Cross-references: GDB:120759; OMIM:187040
 A:Map position: ip32-lp32

Query Match	21.2%;	Score 29;	DB 2;	Length 24;
Best Local Similarity	55.6%;	Pred. No. 1.3e+03;		
Matches	5.	Mismatches 2;	Indels 0;	Gaps 0;
Conservative				

Qy 3 RALKWKNAH 11
||| :|:
db 10 RASKWPWAY 18

RESULT 8

A53592
H₈-exporting ATPase (EC 3.6.3.6) 24k chain - *Thermus aquaticus* (fragment)
C:Species: *Thermus aquaticus*
C:Date: 01-Dec-1995 #sequence_revision 01-Dec-1995 #text_change 09-Jul-2004
C:Accession: A53592
R:Yokoyama, K.; Akabane, Y.; Ishii, N.; Yoshida, M.
J. Biol. Chem. 269, 12248-12253, 1994
A:Title: Isolation of prokaryotic V-0V-1-ATPase from a thermophilic eubacterium
A:Reference number: A53592; MUID:94216345; PMID:8163530
A:Accession: A53592

A>Status: preliminary
A:Molecule type: protein
A:Residues: 1-20 <YOK>
A:Cross-references: UNIPROT:Q7M196
C:Keywords: hydrolase

Query Match 20.8%; Score 28.5; DB 2; Length 20;
Best Local Similarity 52.6%; Pred. No. 1.2e+03;
Matches 10; Conservative 1; Mismatches 5; Indels 3; Gaps 1;

QY 10 AHLKQEIQAALAEQ 28
| | | | | | | | | | | | | | | | | | | | | |
Db 5 ALLSQEV---EAEIQALLQ 20

RESULT 9

S00495

hemocyanin chain III - Japanese spiny lobster (fragment)

C:Species: Panulirus japonicus (Japanese spiny lobster)

C>Date: 31-Dec-1988 #sequence_revision 31-Dec-1988 #text_change 09-Jul-2004

A:Accession: S00495

R:Makino, N.; Kimura, S.

Eur. J. Biochem. 173, 423-430, 1988

A>Title: Subunits of Panulirus japonicus hemocyanin. 1. Isolation and properties.

A:Reference number: S00492; MUID:88196131; PMID:3360019

A:Accession: S00495

A:Molecule type: protein

A:Residues: 1-19 <NAK>

A:Cross-references: UNIPROT:P82313

C:Superfamily: hemocyanin

C:Keywords: copper; hemolymph; hexamer; oxygen carrier

Query Match 20.4%; Score 28; DB 2; Length 19;
Best Local Similarity 62.5%; Pred. No. 1.4e+03;
Matches 5; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 9 NAHLKQEI 16

| | | | | | | | | | | | | | | | | | | | | |

Db 7 NAHLKQDI 14

RESULT 10

C47689

flagellar core protein, 34K - Treponema hyodysenteriae (fragment)

C:Species: Treponema hyodysenteriae

C>Date: 19-Dec-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004

A:Accession: C47689

R:Koopman, M.B.; Baats, E.; van Vorstenbosch, C.J.; van der Zeijst, B.A.; Kusters, J.G.

J. Gen. Microbiol. 138, 2697-2706, 1992

A>Title: The periplasmic flagella of Serpulina (Treponema) hyodysenteriae are composed of

A:Reference number: A47689; MUID:93139764; PMID:1487733

A:Contents: C5, Treponema

A:Accession: C47689

A>Status: preliminary

A:Molecule type: protein

A:Residues: 1-24 <KOO>

A:Cross-references: UNIPROT:Q7M132

A>Note: sequence extracted from NCBI backbone (NCBIP:123402)

Query Match 20.4%; Score 28; DB 2; Length 24;
Best Local Similarity 45.5%; Pred. No. 1.7e+03;
Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 3 RALKWNAHLK 13

| | | | | | | | | | | | | | | | | | | | | |

Db 14 RTLKFRNVDLR 24

RESULT 11

G61002

transformation-sensitive protein IEF-3613 - human (fragments)

C:Species: Homo sapiens (man)

C>Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 17-Mar-1999

C:Accession: G61002

R:Bauw, G.; Rasmussen, H.H.; Van Den Bulcke, M.; Van Damme, J.; Puype, M.; Gesser, B.;

Electrophoresis 11, 528-536, 1990

A>Title: Two-dimensional gel electrophoresis, protein electroblotting and microsequencing

A:Reference number: A61002; MUID:91031404; PMID:1699755

A:Accession: G61002

A:Molecule type: protein

A:Residues: 1-27 <BAU>

A>Note: this material corresponds to transformed epithelial amnion cell (AMA) database

Query Match 20.4%; Score 28; DB 2; Length 27;

Best Local Similarity 31.2%; Pred. No. 2e+03;

Matches 5; Conservative 6; Mismatches 5; Indels 0; Gaps 0;

QY 8 KNAHLKQEIQAALAEQEI 23

| | | | | | | | | | | | | | | | | | | | | |

Db 6 KLAYNPDLALAEETL 21

RESULT 12

A59325

probable bacteriophage receptor BactA [imported] - Bacteroides fragilis (fragment)

C:Species: Bacteroides fragilis

C>Date: 28-Jul-2000 #sequence_revision 28-Jul-2000 #text_change 09-Jul-2004

A:Accession: A59325

R:Frias-Lopez, J.

submitted to the Protein Sequence Database, July 2000

A>Description: Identification of cell wall proteins of Bacteroides fragilis to which bac

A:Reference number: A59325

A:Accession: A59325

A>Status: preliminary

A:Molecule type: protein

A:Residues: 1-21 <FRI>

A:Cross-references: UNIPROT:Q7M123

A:Experimental source: Strain ATCC 51477

A>Note: putative receptor for bacteriophage B40-8

Query Match 19.7%; Score 27; DB 2; Length 21;

Best Local Similarity 58.3%; Pred. No. 2.1e+03;

Matches 7; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 15 EIALKQEIQAAL 26

| | | | | | | | | | | | | | | | | | | | | |

Db 8 EPAALHDEMLAL 19

RESULT 13

PQ0844

DNA-binding protein AcBBP1 - Azorhizobium caulinodans (fragment)

C:Species: Azorhizobium caulinodans

C>Date: 03-May-1994 #sequence_revision 07-Oct-1994 #text_change 09-Jul-2004

A:Accession: PQ0844

R:Welters, P.; Metz, B.; Felix, G.; Palme, K.; Szczygłowski, K.; de Bruijn, P.J.

Plant Physiol. 102, 1095-1107, 1993

A>Title: Interaction of a rhizobial DNA-binding protein with the promoter region of a pl

A:Reference number: PQ0844; MUID:94105338; PMID:8278541

A:Accession: PQ0844

A:Molecule type: protein

A:Residues: 1-27 <WEL>

A:Cross-references: UNIPROT:Q7M1A8

A:Experimental source: strain ORS571

Query Match 19.3%; Score 26.5; DB 2; Length 27;

Best Local Similarity 30.4%; Pred. No. 3.1e+03;

Matches 7; Conservative 7; Mismatches 8; Indels 1; Gaps 1;

QY 2 IRALKWKN-AHLKQEIQAALAEQEI 23

| | | | | | | | | | | | | | | | | | | | | |

Db 3 MRKLVGKRNFAIRLQEKGLTQEDV 25

RESULT 14

PA0036

Thu Apr 28 07:26:23 2005

glycine cleavage system protein H1 and H2 - Arabidopsis thaliana (fragment)
 C:Species: Arabidopsis thaliana (mouse-ear cress)
 C:Date: 30-Jun-1992 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
 C:Accession: PA0036
 R:Kano, M.; Kawakami, T.; Miyatake, N.; Teugita, A.
 submitted to JPIID, July 1994
 A:Description: Separation and characterization of Arabidopsis proteins by two-dimensional gel electrophoresis
 A:Reference number: PA0001
 A:Accession: PA0036
 A:Molecule type: protein
 A:Residues: 1-15 <KAM>
 A:Cross-references: UNIPROT:Q7MLX0
 A:Experimental source: stem

Query Match 19.0%; Score 26; DB 2; Length 15;
 Best Local Similarity 40.0%; Pred. No. 2e+03;
 Matches 4; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY 2 IRALKKNAH 11
 : ||| :
 DB 4 LEGKYANCH 13

RESULT 15

PN0467
 nitrogenase (EC 1.18.6.1) molybdenum-iron protein alpha chain - Azotobacter chroococcum
 C:Species: Azotobacter chroococcum
 C:Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 09-Jul-2004
 C:Accession: PN0467
 R:Jones, R.; Woodley, P.; Birkmann-Zinoni, A.; Robson, R.L.
 Gene 123, 145-146, 1993
 A:Title: The nifH gene encoding the Fe protein Component of the molybdenum nitrogenase
 A:Reference number: JN0516; MUID:93138425; PMID:8423000
 A:Accession: PN0467
 A:Molecule type: DNA
 A:Residues: 1-19 <JON>
 A:Cross-references: UNIPROT:Q43964; GB:M73020; NID:gl42326; PIDN:AAA22141.1; PID:G289238
 C:Genetics:
 A:Gene: nifD
 C:Superfamily: dinitrogenase alpha chain; nitrogenase vanadium-iron protein alpha chain
 C:Keywords: ATP; nitrogen fixation; oxidoreductase

Query Match 19.0%; Score 26; DB 2; Length 19;
 Best Local Similarity 36.4%; Pred. No. 2.5e+03;
 Matches 4; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

QY 13 KQEIQALEQEI 23
 : ||| :
 DB 6 REEVESLIQEV 16

Search completed: April 27, 2005, 15:07:13
 Job time : 29.5 secs

Result No.	Query			DB	ID	Description
	Score	Match	Length			
1	36	26.3	25	2	Q7M386	sus scrofa
2	34	24.8	27	2	Q661K4	borrelia gar
3	33	24.1	24	2	Q9RP49	mycobacteri
4	32	23.4	26	2	Q7QXH6	giardia lam
5	32	23.4	25	2	Q9T2S3	solanum tub
6	31	22.6	16	2	Q9QW74	mus sp. hom
7	31	22.6	21	2	Q63076	rattus norv
8	31	22.6	22	2	Q9H002	homo sapien
9	30	21.9	22	2	Q7M0N2	yersinia pse
10	30	21.9	28	2	Q9IN95	human immun
11	29.5	21.5	28	2	Q6V4K8	streptococci
12	29	21.2	13	2	Q50038	mycobacteri
13	29	21.2	23	2	Q6V1O6	mus spretus
14	29	21.2	24	1	HPTA RABIT	cryptotolagu
15	29	21.2	26	2	Q6BDL1	tricholoma
16	28.5	20.8	20	2	Q7WML96	thermus aqu
17	28	20.4	19	1	HCY3 PANJA	panulirus j
18	28	20.4	21	2	Q9UCJ6	homo sapien
19	28	20.4	23	1	NIFD ANASL	anabaena sp
20	28	20.4	24	2	Q7ML32	treponema h
21	28	20.4	25	1	LYT1 HOGCA	hogns carol
22	27.5	20.1	27	2	Q8T3I7	drosophila
23	27	19.7	19	2	Q9BDG4	bos taurus
24	27	19.7	21	2	Q7WML23	bacteroides
25	27	19.7	22	2	Q44710	drosophila
26	27	19.7	23	2	Q94XD3	pteroxanium
27	27	19.7	23	2	Q9AJQ7	vibrio fisci
28	27	19.7	24	2	Q9RLM2	rattus norv
29	27	19.7	26	2	Q9NJR1	euprynna sci
30	26.5	19.3	23	2	Q7WML48	azorhizobiu
31	26	19.0	13	2	Q9QW45	rattus sp.

Matches 6; Conservative 3; Mismatches 4; Indels 0; Gaps 0;

Best Local Similarity 52.9%; Pred. No. 2.2e+03; Matches 9; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy 1 KIRALKWKNHLK 13
Db 9 RMRLKRRHRMK 21

Qy 1 KIRALKWKNHLKQK 17
Db 4 KILALKKKNLNYKINIS 20

RESULT 5
Q9T2S3 PRELIMINARY; PRT; 26 AA.
AC Q9T2S3
DT 01-MAY-2000 (TRENBLrel. 13, Created)
DT 01-MAY-2000 (TRENBLrel. 13, Last sequence update)
DT 01-OCT-2003 (TRENBLrel. 25, Last annotation update)
DE Cytochrome-C reductase 55 kDa subunit (EC 1.10.2.2) (Fragment).
OS Solanum tuberosum (potato).
OG Mitochondrion.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; asterids; lamids; Solanales; Solanaceae; Solanum.
OX NCBI_TaxID=4113;
RN [1]
RP SEQUENCE.
RX MEDLINE=94198758; PubMed=7764624;
RA Braun H.P., Kruft V., Schmitz U.K.;
RL Planta 193:99-106 (1994).
DR MEROPS, M16.003; F:metalloendopeptidase activity; IEA.
DR GO; GO:0004222; F:metalloendopeptidase activity; IEA.
DR GO; GO:0008121; F:ubiquinol-cytochrome-c reductase activity; IEA.
DR GO; GO:0006508; P:proteolysis and peptidolysis; IEA.
DR InterPro; IPR001431; Insulinase like.
DR Pfam; PF00675; Peptidase M16; 1.
SQ SEQUENCE 26 AA; 3042 MW; C92C5787C8F12AC8 CRC64;

Query Match 23.4%; Score 32; DB 2; Length 26;
Best Local Similarity 63.6%; Pred. No. 3.9e+03;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
Qy 13 KOEIAALEOEI 23
Db 1 KRPIRALEEEI 11

RESULT 6
Q9QW74 PRELIMINARY; PRT; 16 AA.
AC Q9QW74
DT 01-MAY-2000 (TRENBLrel. 13, Created)
DT 01-MAY-2000 (TRENBLrel. 13, Last sequence update)
DT 01-MAR-2004 (TRENBLrel. 26, Last annotation update)
DE Homeobox GSH-5 (Fragment).
OS Mus sp.
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10095;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=92073356; PubMed=1683707;
RA Singh G., Kaur S., Stock J.L., Jenkins N.A., Gilbert D.J., Copeland N.G., Potter S.S.;
RT "Identification of 10 murine homeobox genes";
RL Proc. Natl. Acad. Sci. U.S.A. 88:10706-10710 (1991).
CC -!- SUBCELLULAR LOCATION: Nuclear (By similarity).
DR GO; GO:0005634; C:nucleus; IEA.
DR GO; GO:0003700; F:transcription factor activity; IEA.
DR GO; GO:0006355; P:regulation of transcription, DNA-dependent; IEA.
DR InterPro; IPR001356; Homeobox.
DR ProDom; PD000010; Homeobox; 1.
DR PROSITE; PS00071; Homeobox_2; 1.
KW DNA-binding; Homeobox; Nuclear protein.
FT NON_TER 1 16
FT NON_TER 16 16

Query Match 24.1%; Score 33; DB 2; Length 24;
Best Local Similarity 54.5%; Pred. No. 2.6e+03;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
Qy 11 HLKQEIATLEQ 21
Db 12 HLPRLAALER 22

RESULT 4
Q7QXH6 PRELIMINARY; PRT; 25 AA.
AC Q7QXH6
DT 01-MAR-2004 (TRENBLrel. 26, Created)
DT 01-MAR-2004 (TRENBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TRENBLrel. 26, Last annotation update)
DE GLP 14, 5818, 5741.
OS Giardia lamblia ATCC 50803.
OC Eukaryota; Diplomonadida; Hexamitidae; Giardiinae; Giardia.
OX NCBI_TaxID=184922;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=WB CS;
RA Morrison H.G., McArthur A.G., Adam R.D., Aley S.B., Gillin F.D., Olsen G.J., Sogin M.L.;
RT "Draft sequence of the Giardia lamblia genome.";
RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
CC -!- CAUTION: The sequence shown here is derived from an EMBL/GenBank/DBJ whole genome shotgun (WGS) entry which is preliminary data.
DR EMBL; AACB0100060; EAA39724.1; -.
DR GO; GO:0005840; C:ribosome; IEA.
DR GO; GO:0003735; F:structural constituent of ribosome; IEA.
DR GO; GO:0006412; P:protein biosynthesis; IEA.
DR InterPro; IPR007836; Ribosomal L41.
DR Pfam; PF05162; Ribosomal L41; 1.
SQ SEQUENCE 25 AA; 3267 MW; 9AD629C253733C4E CRC64;

Query Match 23.4%; Score 32; DB 2; Length 25;
Best Local Similarity 46.2%; Pred. No. 3.7e+03;
Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
Qy 11 HLKQEIATLEQ 21
Db 12 HLPRLAALER 22

SQ SEQUENCE 16 AA; 2178 MW; AEC306578EE24361 CRC64;
Query Match 22.6%; Score 31; DB 2; Length 16;
Best Local Similarity 50.0%; Pred. No. 3.1e+03;
Matches 4; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
QY 3 RALKWNA 10
| :|||:
Db 8 REMKWRNS 15
| :|||:
RESULT 7
Q63076 PRELIMINARY; PRT; 21 AA.
AC Q63076;
DT 01-NOV-1996 (TrEMBLrel. 01, Created)
DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DT 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
DE Alpha-2 type I collagen (Fragment).
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Fetal calvaria;
RX MEDLINE=85122694; PubMed=6395893;
RA Genovese C., Rowe D., Kream B.;
RT "Construction of DNA sequences complementary to rat alpha 1 and alpha
RT 2 collagen mRNA and their use in studying the regulation of type I
RT collagen synthesis by 1,25-dihydroxyvitamin D."
RL Biochemistry 23:6210-6216(1984).
DR EMBL; M12200; AAA40835.1; -.
DR PIR; I65270; I65270.
DR GO; GO:0005581; C:collagen; IEA.
DR GO; GO:0005201; F:extracellular matrix structural constituent; IEA.
DR InterPro; IPR000885; Fib_collagen_C.
DR Pfam; PF01410; COLFI; 1.
DR ProDom; PD002078; Fib_collagen_C; 1.
KW Collagen.
FT NON_TER 1 1
FT NON_TER 21 21
SQ SEQUENCE 21 AA; 2358 MW; B86AGECCCEEE46D60 CRC64;
Query Match 22.6%; Score 31; DB 2; Length 21;
Best Local Similarity 50.0%; Pred. No. 4.2e+03;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;
QY 11 HLKQEIAALEQE 22
| :|||:
Db 8 HCKNSIAYLDEE 19
| :|||:
RESULT 8
Q9H002 PRELIMINARY; PRT; 22 AA.
AC Q9H002;
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE ATP-binding cassette transporter-1 (Fragment).
GN Name=ABC-1;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Porach-Oezcuereñez M., Langmann T., Schmitz G.;
RL Submitted (JAN-2001) to the EMBL/GenBank/DDBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA Porach-Oezcuereñez M.K.;

RL Submitted (JAN-2000) to the EMBL/GenBank/DDBJ databases.
DR EMBL; AJ252277; CAC21428.1; -.
DR GO; GO:0005524; F:ATP binding; IEA.
KW ATP-binding.
FT NON_TER 22 22
SQ SEQUENCE 22 AA; 2831 MW; 6183559EA0C22B53 CRC64;
Query Match 22.6%; Score 31; DB 2; Length 22;
Best Local Similarity 55.6%; Pred. No. 4.4e+03;
Matches 5; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 1 KIRALKWQN 9
| :|||:
Db 6 QLRLLWKN 14
| :|||:
RESULT 9
Q7MON2 PRELIMINARY; PRT; 22 AA.
AC Q7MON2;
DT 01-MAR-2004 (TrEMBLrel. 26, Created)
DT 01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Unidentified low M-r protein (fragment).
OS Versinia pseudotuberculosis.
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Versinia.
OX NCBI_TaxID=633;
RN [1]
RP SEQUENCE.
RX MEDLINE=90243678; PubMed=2159466;
RA Han O., Miller V.P., Liu H.;
RT "Mechanistic studies of the biosynthesis of 3,6-dideoxyhexoses in
RT Versinia pseudotuberculosis. Purification and characterization of CDP-
RT 6-deoxy-delta(3,4)-glucosyl transferase based on its
RT NADH:chlorophenolindolphenol oxidoreductase activity."
RL J. Biol. Chem. 265:8033-8041(1990).
DR PIR; B35372; B35372.
DR NON_TER 22 22
SQ SEQUENCE 22 AA; 2192 MW; 3E88CD8AAC8680BB CRC64;
Query Match 21.9%; Score 30; DB 2; Length 22;
Best Local Similarity 70.0%; Pred. No. 5.9e+03;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
QY 17 AALQEIAAL 26
| :|||:
Db 6 AALVKELAL 15
| :|||:
RESULT 10
Q9IN95 PRELIMINARY; PRT; 28 AA.
AC Q9IN95;
DT 01-OCT-2000 (TrEMBLrel. 15, Created)
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE Gag protein (Fragment).
GN Name=gag;
OS Human immunodeficiency virus 1.
OC Viruses; Retroid viruses; Retroviridae; Lentivirus.
OX NCBI_TaxID=11676;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=9260287; PubMed=10331444; DOI=10.1089/08922299310953;
RA Mokili J.L., Wade C.M., Burns S.M., Cutting W.A., Bopopi J.M.,
RA Green S.D., Featherer J.F., Simmonds P.;
RT "Genetic heterogeneity of HIV type 1 subtypes in Kimpese, rural
RT Democratic Republic of Congo".
RL AIDS Res. Hum. Retroviruses 15:655-664(1999).
RN [2]
RP SEQUENCE FROM N.A.
RA Mokili J.L.K.;

RL Submitted (APR-1999) to the EMBL/GenBank/DBSJ databases.
DR EMBL; AF144854; AAF69080.1; -
FT NON_TER 1
SQ SEQUENCE 28 AA; 3322 MW; 76749DCB3296BAA9 CRC64;

Query Match 21.9%; Score 30; DB 2; Length 28;
Best Local Similarity 66.7%; Pred. No. 7.6e+03;
Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 7 WKNAHL 12
|:|:|
Db 2 WKDSHL 7

RESULT 11

Q6V4K8 PRELIMINARY; PRT; 28 AA.
AC Q6V4K8;
DT 05-JUL-2004 (TRENBLrel. 27, Created)
DT 05-JUL-2004 (TRENBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TRENBLrel. 27, Last annotation update)
DE M protein (Fragment).
OS Streptococcus pyogenes.
OC Bacteria; Firmicutes; Lactobacillales; Streptococcaceae;
OC Streptococcus.
OX NCBI_TaxID=1314;
RN [1] SEQUENCE FROM N.A.
RP STRAIN=NS696;
RX PubMed=14688117; DOI=10.1128/IAI.72.1.364-370.2004;
RA McKay F.C., McArthur J.D., Sanderson-Smith M.L., Gardam S.,
RA Currie B.J., Sriprakash K.S., Fagan P.K., Towers R.J., Batzloff M.R.,
RA Chatwal G.S., Ranson M., Walker M.J.;
RT "Plasminogen binding by group A streptococcal isolates from a region
of hypervirulence for streptococcal skin infection and a high
incidence of invasive infection."
RL Infect. Immun. 72:364-370(2004).
DR EMBL; AY351858; AAG64528.1; -
FT NON_TER 1
FT NON_TER 28
SQ SEQUENCE 28 AA; 3463 MW; 013B1C94B01B96ED CRC64;

Query Match 21.5%; Score 29.5; DB 2; Length 28;
Best Local Similarity 38.1%; Pred. No. 8.8e+03;
Matches 8; Conservative 4; Mismatches 6; Indels 3; Gaps 1;

QY 7 WKNAHLKOEIAALEQIEA 27
|:|:|:|:|
Db 1 WDRQRLEKE---LEEKKEALE 18

RESULT 12

Q50038 PRELIMINARY; PRT; 13 AA.
AC Q50038;
DT 01-NOV-1996 (TRENBLrel. 01, Created)
DT 01-NOV-1996 (TRENBLrel. 01, Last sequence update)
DT 01-NOV-1996 (TRENBLrel. 01, Last annotation update)
DE U22661.
OS Mycobacterium leprae.
OC Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
OC Corynebacterineae; Mycobacteriaceae; Mycobacterium.
OX NCBI_TaxID=1769;
RN [1] SEQUENCE FROM N.A.
RP Smith D.R.;
RL Submitted (APR-1995) to the EMBL/GenBank/DBSJ databases.
RN [2]
RP ROBISON K.;
RA Submitted (SEP-1994) to the EMBL/GenBank/DBSJ databases.
DR EMBL; U15182; AAA62970.1; -
SQ SEQUENCE 13 AA; 1589 MW; C7CCD7E47D025B06 CRC64;

Query Match 21.2%; Score 29; DB 2; Length 13;
Best Local Similarity 45.5%; Pred. No. 4.6e+03;
Matches 5; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 11 HLKQEIARA 21
|:|:|:|
Db 3 HVQOEYLGVEQ 13

RESULT 13

Q6V106 PRELIMINARY; PRT; 23 AA.
AC Q6V106;
DT 05-JUL-2004 (TRENBLrel. 27, Created)
DT 05-JUL-2004 (TRENBLrel. 27, Last sequence update)
DT 05-JUL-2004 (TRENBLrel. 27, Last annotation update)
DE Heme oxygenase 1 (Fragment).
GN Name=Hol;
OS Mus spretus (Western wild mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10096;
RN [1] SEQUENCE FROM N.A.
RP TISSUE=Lung;
RA Cabrera-Lague J.M., Prieto-Alamo M.J., Pueyo C.;
RL Submitted (JUL-2003) to the EMBL/GenBank/DBSJ databases.
DR EMBL; AY355145; AAG55831.1; -
FT NON_TER 1
FT NON_TER 23
SQ SEQUENCE 23 AA; 2852 MW; F8D0C3F6975C5900 CRC64;

Query Match 21.2%; Score 29; DB 2; Length 23;
Best Local Similarity 75.0%; Pred. No. 8.3e+03;
Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 17 AALEQIEA 24
|:|:|:|:|
Db 4 AALEQDMA 11

RESULT 14

HPTA_RABIT STANDARD; PRT; 24 AA.
AC P1357L;
DT 01-JAN-1990 (Rel. 13, Created)
DT 01-JAN-1990 (Rel. 13, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Heptapoeitin A light chain (HPTA) (Fragment).
OS Oryctolagus cuniculus (Rabbit).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
OX NCBI_TaxID=9986;
RN [1] SEQUENCE.
RP MEDLINE=89392048; PubMed=2528955;
RA Zarnegar R., Muga S., Enghild J., Michalopoulos G.;
RT "NH2-terminal amino acid sequence of rabbit heptapoeitin A, a
heparin-binding polypeptide growth factor for hepatocytes."
RL Biochem. Biophys. Res. Commun. 163:1370-1376(1989).
CC -!- FUNCTION: HPTA is an acidic heparin-binding growth factor for
hepatocytes.
CC -!- SUBUNIT: Heterodimer of an heavy and a light chain linked by
disulfide bond(s).
DR PIR; A33262; A33262.
KW Direct protein sequencing; Growth factor; Heparin-binding.
FT NON_TER 24
FT NON_TER 24
SQ SEQUENCE 24 AA; 2768 MW; E78BFB9B807262FE CRC64;

Query Match 21.2%; Score 29; DB 1; Length 24;
Best Local Similarity 44.4%; Pred. No. 8.7e+03;
Matches 4; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

QY 4 ALKWKNAHL 12
:|||||:
Db 16 SLKYRNKHI 24

RESULT 15
Q6BDL1 PRELIMINARY; PRT; 26 AA.
AC Q6BDL1;
DT 25-OCT-2004 (TremBLrel. 28, Created)
DT 25-OCT-2004 (TremBLrel. 28, Last sequence update)
DT 25-OCT-2004 (TremBLrel. 28, Last annotation update)
DE Hypothetical protein (Fragment).
OS Tricholoma matsutake.
OC Eukaryota; Fungi; Basidiomycota; Hymenomycetes; Homobasidiomycetes;
OC Agaricales; Tricholomataceae; Tricholoma.
OX NCBI_TaxID=40145;
RN [1]
RP SEQUENCE FROM N.A.
RA Murata H.;
RT "Characterization of the insertion sites of marY1, the gypsy-type
RT retrotransposon from the ectomycorrhizal basidiomycete Tricholoma
RT matsutake strain Y1, in the genome the fungus based on the inter-
RT retrotransposon amplified polymorphism analysis.";
RL Submitted (JAN-2004) to the EMBL/GenBank/DDbj databases.
CC -!- SUBCELLULAR LOCATION: Nuclear (By similarity).
DR EMBL; AB160891; BAD32667.1; -;
DR GO; GO:0000785; C:chromatin; IEA.
DR GO; GO:0005634; C:nucleus; IEA.
DR GO; GO:0003682; F:chromatin binding; IEA.
DR GO; GO:0006333; P:chromatin assembly or disassembly; IEA.
DR InterPro; IPR000953; Chromo.
DR Pfam; PF00385; Chromo; 1.
DR PROSITE; PS00598; CHROMO_1; UNKNOWN_1.
DR PROSITE; PS50013; CHROMO_2; 1.
KW Hypothetical protein; Nuclear protein.
FT NON_TER 1
FT NON_TER 26
SQ SEQUENCE 26 AA; 3272 MW; 3E4B000853591617 CRC64;

Query Match 21.2%; Score 29; DB 2; Length 26;
Best Local Similarity 80.0%; Pred. No. 9.4e+03;
Matches 4; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 5 LKWK 9
:|||||:
Db 7 IKWK 11

Search completed: April 27, 2005, 15:06:18
Job time : 114 secs

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OM protein - protein search, using sw model

Run on: April 27, 2005, 14:58:17 ; Search time 29.5 seconds
(without alignments)
70.853 Million cell updates/sec

Title: US-10-088-417A-4
Perfect score: 137
Sequence: 1 KIRALKWNAHLKQEIATLAEQ 28

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 228236

Minimum DB seq length: 0
Maximum DB seq length: 28

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA: *
1: /cgn2_6/ptodata/1/1aa/5A-COMB.pep: *
2: /cgn2_6/ptodata/1/1aa/5B-COMB.pep: *
3: /cgn2_6/ptodata/1/1aa/6A-COMB.pep: *
4: /cgn2_6/ptodata/1/1aa/6B-COMB.pep: *
5: /cgn2_6/ptodata/1/1aa/PCTUS-COMB.pep: *
6: /cgn2_6/ptodata/1/1aa/backfiles1.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	47	34.3	21	4	US-09-834-759-534
2	45	32.8	26	4	US-09-403-861A-8
3	45	32.8	27	2	US-07-684-965-9
4	45	32.8	27	3	US-09-252-658-9
5	45	32.8	28	3	US-08-486-099-84
6	45	32.8	28	3	US-08-360-107A-94
7	45	32.8	28	3	US-08-484-223B-84
8	45	32.8	28	3	US-08-519-597-84
9	45	32.8	28	3	US-08-475-668A-84
10	45	32.8	28	3	US-08-485-551A-84
11	45	32.8	28	3	US-08-471-913A-84
12	45	32.8	28	3	US-08-485-264A-84
13	45	32.8	28	3	US-08-474-349A-84
14	45	32.8	28	4	US-08-255-208A-20
15	45	32.8	28	4	US-08-470-896-84
16	45	32.8	28	4	US-09-914-259-1
17	45	32.8	28	4	US-08-485-546A-84
18	45	32.8	28	4	US-09-350-841A-1549
19	45	32.8	28	4	US-09-350-841A-1566
20	45	32.8	28	4	US-09-350-841A-1573
21	45	32.8	28	4	US-08-487-266A-84
22	44	32.1	24	4	US-09-491-614B-29
23	44	32.1	28	1	PCT-US92-06412-1
24	44	32.1	28	5	PCT-US92-06412-1
25	43	31.4	24	2	US-08-491-527A-12
26	42	30.7	24	2	US-08-491-527A-11
27	42	30.7	25	4	US-09-491-614B-25

28	42	30.7	26	2	US-08-690-011A-37	Sequence 37, Appl
29	42	30.7	26	3	US-09-299-495F-37	Sequence 37, Appl
30	40	29.2	14	2	US-08-491-527A-8	Sequence 8, Appl
31	39	28.5	22	3	US-09-248-588-98	Sequence 98, Appl
32	38	27.7	14	2	US-08-491-527A-9	Sequence 9, Appl
33	38	27.7	25	2	US-08-690-011A-2	Sequence 2, Appl
34	38	27.7	25	3	US-09-299-495F-2	Sequence 2, Appl
35	38	27.7	26	2	US-08-690-011A-3	Sequence 3, Appl
36	38	27.7	26	3	US-09-299-495F-3	Sequence 3, Appl
37	38	27.7	28	1	US-08-182-175A-3	Sequence 3, Appl
38	38	27.7	28	1	US-08-474-633A-70	Sequence 70, Appl
39	38	27.7	28	4	US-08-823-771-70	Sequence 70, Appl
40	38	27.7	28	5	PCT-US92-06412-3	Sequence 3, Appl
41	41	37.0	27	3	US-07-684-965-8	Sequence 8, Appl
42	37	27.0	27	3	US-09-252-658-8	Sequence 8, Appl
43	37	27.0	28	1	US-07-977-630-53	Sequence 53, Appl
44	36	26.3	14	2	US-08-491-527A-7	Sequence 7, Appl
45	36	26.3	14	2	US-08-491-527A-10	Sequence 10, Appl

ALIGNMENTS

RESULT 1
US-09-834-759-534
; Sequence 534, Application US/09834759
; Patent No. 6680197
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.470C9
; CURRENT APPLICATION NUMBER: US/09/834,759
; CURRENT FILING DATE: 2001-04-13
; NUMBER OF SEQ ID NOS: 547
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 534
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-834-759-534

Query Match 34.3%; Score 47; DB 4; Length 21;
Best Local Similarity 57.9%; Pred. NO. 5.8;
Matches 11; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 9 NAHLKQEIATLAEQIATLAE 27
DB 1 NCMLKKEIATMLKLEIATLAK 19

RESULT 2
US-09-403-861A-8
; Sequence 8, Application US/09403861A
; Patent No. 6833348
; GENERAL INFORMATION:
; APPLICANT: RICCARDI, Carlo
; TITLE OF INVENTION: INTRACELLULAR MODULATORS OF APOPTIC CELL
; DEATH PATHWAYS
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
; STREET: 624 Ninth Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20001

DB 4 KVEELLSKNYHLENEVARLKK 24

RESULT 5

US-08-486-099-84

Sequence 84, Application US/08486099

Patent No. 6013263

GENERAL INFORMATION:

APPLICANT: Bolognesi, Dani P.

APPLICANT: Matthews, Thomas J.

APPLICANT: Wild, Carl T.

APPLICANT: Barney, Shawn O.

APPLICANT: Lambert, Dennis M.

APPLICANT: Petteway, Stephen R.

APPLICANT: Langlois, Alphonse J.

TITLE OF INVENTION: COMPOSITIONS FOR INHIBITION OF

TITLE OF INVENTION: MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HEPATITIS

TITLE OF INVENTION: B VIRUS TRANSMISSION

NUMBER OF SEQUENCES: 209

CORRESPONDENCE ADDRESS:

ADDRESSEE: Pennie & Edmonds

STREET: 1155 Avenue of the Americas

CITY: New York

STATE: New York

COUNTRY: USA

ZIP: 10036-2711

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/486,099

FILING DATE: 07-JUN-1995

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Coruzzi, Laura A.

REGISTRATION NUMBER: 30,742

REFERENCE/DOCKET NUMBER: 7872-031

TELEPHONE: (212) 790-9090

TELEFAX: (212) 869-9741/8864

TELEX: 66141 PENNIE

INFORMATION FOR SEQ ID NO: 84:

SEQUENCE CHARACTERISTICS:

LENGTH: 28 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: unknown

MOLECULE TYPE: peptide

US-08-486-099-84

Query Match 32.8%; Score 45; DB 3; Length 28;

Best Local Similarity 42.9%; Pred. No. 15;

Matches 9; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

QY 1 KIRALKWQNAHLKQETAALEQ 21

DB 7 KVEELLSKNYHLENEVARLKK 27

RESULT 6

US-08-360-107A-94

Sequence 94, Application US/08360107A

Patent No. 6017536

GENERAL INFORMATION:

APPLICANT: Bolognesi, Dani P.

APPLICANT: Matthews, Thomas J.

APPLICANT: Wild, Carl T.

APPLICANT: Barney, Shawn O.

APPLICANT: Lambert, Dennis M.

APPLICANT: Petteway, Stephen R.

APPLICANT: Langlois, Alphonse J.

TITLE OF INVENTION: COMPOSITIONS FOR INHIBITION OF

TITLE OF INVENTION: MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HIV

TITLE OF INVENTION: TRANSMISSION

NUMBER OF SEQUENCES: 245

CORRESPONDENCE ADDRESS:

ADDRESSEE: Pennie & Edmonds LLP

STREET: 1155 Avenue of the Americas

CITY: New York

STATE: New York

COUNTRY: USA

ZIP: 10036-2711

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

US-08-360-107A-94

Query Match 32.8%; Score 45; DB 3; Length 28;

Best Local Similarity 42.9%; Pred. No. 15;

Matches 9; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

QY 1 KIRALKWQNAHLKQETAALEQ 21

DB 7 KVEELLSKNYHLENEVARLKK 27

RESULT 7

US-08-484-223B-84

Sequence 84, Application US/08484223B

Patent No. 6020459

GENERAL INFORMATION:

APPLICANT: Bolognesi, Dani P.

APPLICANT: Matthews, Thomas J.

APPLICANT: Wild, Carl T.

APPLICANT: Barney, Shawn O.

APPLICANT: Lambert, Dennis M.

APPLICANT: Petteway, Stephen R.

APPLICANT: Langlois, Alphonse J.

TITLE OF INVENTION: COMPOSITIONS FOR INHIBITION OF

TITLE OF INVENTION: MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HIV

TITLE OF INVENTION: TRANSMISSION

NUMBER OF SEQUENCES: 245

CORRESPONDENCE ADDRESS:

ADDRESSEE: Pennie & Edmonds LLP

STREET: 1155 Avenue of the Americas

CITY: New York

STATE: New York

COUNTRY: USA

ZIP: 10036-2711

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

US-08-484-223B-84

Query Match 32.8%; Score 45; DB 3; Length 28;

Best Local Similarity 42.9%; Pred. No. 15;

Matches 9; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

QY 1 KIRALKWQNAHLKQETAALEQ 21

DB 7 KVEELLSKNYHLENEVARLKK 27

SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/484,223B
 FILING DATE: 07-JUN-1995
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Coruzzi, Laura A.
 REGISTRATION NUMBER: 30,742
 REFERENCE/DOCKET NUMBER: 7872-029
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 790-9090
 TELEFAX: (212) 869-9741/8864
 TELEX: 66141 PENNIE
 INFORMATION FOR SEQ ID NO: 84:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 28 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: unknown
 MOLECULE TYPE: peptide
 US-08-484-223B-84

Query Match 32.8%; Score 45; DB 3; Length 28;
 Best Local Similarity 42.9%; Pred. No. 15;
 Matches 9; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

Qy 1 KIRALKWKNHKLKQETIALEQ 21
 Db 7 KVEELLSKNYHLENEVARLKK 27

RESULT 8

US-08-919-597-84
 Sequence 84, Application US/08919597
 Patent No. 6054265

GENERAL INFORMATION:
 APPLICANT: Bolognesi, Dani P.
 APPLICANT: Matthews, Thomas J.
 APPLICANT: Wild, Carl T.
 APPLICANT: Barney, Shawn O.
 APPLICANT: Lambert, Dennis M.
 APPLICANT: Petteway, Stephen R.
 APPLICANT: Langlois, Alphonse J.
 TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INHIBITION
 OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HIV
 TITLE OF INVENTION: TRANSMISSION
 NUMBER OF SEQUENCES: 273
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Pennie & Edmonds
 STREET: 1155 Avenue of the Americas
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10036-2711

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/919,597
 FILING DATE:

CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/470,896
 FILING DATE: 06-JUN-1995
 ATTORNEY/AGENT INFORMATION:
 NAME: Coruzzi, Laura A.
 REGISTRATION NUMBER: 30,742
 REFERENCE/DOCKET NUMBER: 7872-020
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 790-9090
 TELEFAX: (212) 869-9741/8864

Query Match 32.8%; Score 45; DB 3; Length 28;
 Best Local Similarity 42.9%; Pred. No. 15;
 Matches 9; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

TELEX: 66141 PENNIE
 INFORMATION FOR SEQ ID NO: 84:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 28 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: unknown
 MOLECULE TYPE: peptide
 US-08-919-597-84

Query Match 32.8%; Score 45; DB 3; Length 28;
 Best Local Similarity 42.9%; Pred. No. 15;
 Matches 9; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

Qy 1 KIRALKWKNHKLKQETIALEQ 21
 Db 7 KVEELLSKNYHLENEVARLKK 27

RESULT 9

US-08-475-668A-84
 Sequence 84, Application US/08475668A
 Patent No. 6060065

GENERAL INFORMATION:
 APPLICANT: Barney, Shawn O.
 APPLICANT: Lambert, Dennis M.
 APPLICANT: Petteway, Stephen R.
 TITLE OF INVENTION: COMPOSITIONS FOR INHIBITION OF MEMBRANE
 FUSION-ASSOCIATED EVENTS, INCLUDING INFLUENZA VIRUS
 TITLE OF INVENTION: TRANSMISSION
 NUMBER OF SEQUENCES: 211
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Pennie & Edmonds LLP
 STREET: 1155 Avenue of the Americas
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10036-2711

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/475,668A
 FILING DATE: 07-JUN-1995

CLASSIFICATION: 424
 ATTORNEY/AGENT INFORMATION:
 NAME: Coruzzi, Laura A.
 REGISTRATION NUMBER: 30,742
 REFERENCE/DOCKET NUMBER: 7872-026
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 790-9090
 TELEFAX: (212) 869-9741/8864
 TELEX: 66141 PENNIE

INFORMATION FOR SEQ ID NO: 84:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 28 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: unknown
 MOLECULE TYPE: peptide
 US-08-475-668A-84

Query Match 32.8%; Score 45; DB 3; Length 28;
 Best Local Similarity 42.9%; Pred. No. 15;
 Matches 9; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

Qy 1 KIRALKWKNHKLKQETIALEQ 21
 Db 7 KVEELLSKNYHLENEVARLKK 27

Thu Apr 28 07:26:22 2005

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; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7872-021
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-9741/8864
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 84:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
US-08-485-264A-84

Query Match 32.8%; Score 45; DB 3; Length 28;
Best Local Similarity 42.9%; Pred. No. 15;
Matches 9; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

QY 1 KIRALKWKNKHAHLKQETIAALEQ 21
Db 7 KVEELLSKNYHLENEVARLKK 27

RESULT 13
US-08-474-349A-84
; Sequence 84, Application US/08474349A
; Patent No. 6333395
; GENERAL INFORMATION:
; APPLICANT: Bolognesi, Dani P.
; APPLICANT: Matthews, Thomas J.
; APPLICANT: Wild, Carl T.
; APPLICANT: Barney, Shawn O.
; APPLICANT: Lambert, Dennis M.
; APPLICANT: Petteway, Stephen R.
; APPLICANT: Langlois, Alphonse J.
; TITLE OF INVENTION: COMPOSITIONS FOR INHIBITION OF MEMBRANE
; TITLE OF INVENTION: FUSION-ASSOCIATED EVENTS, INCLUDING HUMAN PARAINFLUENZA
; TITLE OF INVENTION: VIRUS TRANSMISSION
; NUMBER OF SEQUENCES: 517
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/474,349A
; FILING DATE: 07-JUN-1995
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7872-024
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-9741/8864
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 84:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 amino acids
; TYPE: amino acid
; STRANDEDNESS:

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; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
US-08-474-349A-84

Query Match 32.8%; Score 45; DB 3; Length 28;
Best Local Similarity 42.9%; Pred. No. 15;
Matches 9; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

QY 1 KIRALKWKNKHAHLKQETIAALEQ 21
Db 7 KVEELLSKNYHLENEVARLKK 27

RESULT 14
US-08-255-208A-20
; Sequence 20, Application US/08255208A
; Patent No. 6440656
; GENERAL INFORMATION:
; APPLICANT: Bolognesi, Dani P.
; APPLICANT: Matthews, Thomas J.
; APPLICANT: Wild, Carl T.
; APPLICANT: Barney, Shawn O.
; APPLICANT: Lambert, Dennis M.
; APPLICANT: Petteway Jr., Stephen R.
; TITLE OF INVENTION: SYNTHETIC PEPTIDE INHIBITORS OF HIV
; TITLE OF INVENTION: TRANSMISSION
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/255,208A
; FILING DATE: 07-JUN-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7872-010
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-9741/8864
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 amino acids
; TYPE: amino acid
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
US-08-255-208A-20

Query Match 32.8%; Score 45; DB 4; Length 28;
Best Local Similarity 42.9%; Pred. No. 15;
Matches 9; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

QY 1 KIRALKWKNKHAHLKQETIAALEQ 21
Db 7 KVEELLSKNYHLENEVARLKK 27

RESULT 15
US-08-470-896-84
; Sequence 84, Application US/08470896
; Patent No. 6479055
; GENERAL INFORMATION:

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; APPLICANT: Bolognesi, Dani P.
; APPLICANT: Matthews, Thomas J.
; APPLICANT: Wild, Carl T.
; APPLICANT: Barney, Shawn O.
; APPLICANT: Lambert, Dennis M.
; APPLICANT: Petteaway, Stephen R.
; APPLICANT: Langlois, Alphonse J.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INHIBITION
; OF MEMBRANE FUSION-ASSOCIATED EVENTS, INCLUDING HIV
; TITLE OF INVENTION: TRANSMISSION
; NUMBER OF SEQUENCES: 273
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/470,896
; FILING DATE: 06-JUN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7872-020
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-9741/8864
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 84:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 28 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
; US-08-470-896-84

Query Match 32.8%; Score 45; DB 4; Length 28;
Best Local Similarity 42.9%; Pred. No. 15;
Matches 9; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

QY 1 KIRALKWKNHKLKQEIQAALQ 21
   | | | | | | | | | |
DB 7 KVEELLSKNYHLENEVARLKK 27

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Search completed: April 27, 2005, 15:19:43
Job time : 30.5 secs

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	Score	Match	Length	ID	DB	ID
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2	59	43.1	28	14	US-10-360-053-21	Sequence 21, Appl
3	54	39.4	28	14	US-10-360-053-22	Sequence 22, Appl
4	51	37.2	24	14	US-10-338-083-19	Sequence 19, Appl
5	51	37.2	24	16	US-10-611-399-19	Sequence 19, Appl
6	51	37.2	24	17	US-10-794-751-19	Sequence 19, Appl
7	50	36.5	23	10	US-09-259-658-59	Sequence 59, Appl
8	47	34.3	21	9	US-09-834-759-534	Sequence 534, App
9	47	34.3	21	13	US-10-007-805-534	Sequence 534, App
10	47	34.3	21	13	US-10-007-805-587	Sequence 587, App
11	47	34.3	21	14	US-10-076-623-534	Sequence 534, App
12	47	34.3	21	14	US-10-076-623-587	Sequence 587, App
13	47	34.3	21	14	US-10-124-805-534	Sequence 534, App

RESULT 2

Thu Apr 28 07:26:23 2005

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US-10-360-053-21
; Sequence 21, Application US/10360053
; Publication No. US20030170230A1
; GENERAL INFORMATION:
; APPLICANT: Caterer, Nigel
; APPLICANT: Uttenenthal, Lars O
; APPLICANT: Nielsen, Rasmus W
; TITLE OF INVENTION: Compositions and Methods for Assembly and Stabilization of Antic
; TITLE OF INVENTION: Fragments via Antiparallel Heterogeneous Coiled-Coil Peptide Regi
; TITLE OF INVENTION: Thereof
; FILE REFERENCE: IMX-0028
; CURRENT APPLICATION NUMBER: US/10/360,053
; CURRENT FILING DATE: 2003-02-05
; PRIOR APPLICATION NUMBER: US60/354,376
; PRIOR FILING DATE: 2002-02-05
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 21
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-360-053-21

Query Match 43.1%; Score 59; DB 14; Length 28;
Best Local Similarity 40.0%; Pred. No. 0.69;
Matches 10; Conservative 12; Mismatches 3; Indels 0; Gaps 0;

QY 4 ALAKWNAHLKQETAALEQETAALEQ 28
DB 1 AIEYQAIAKEETAAIKNDKIAIKE 25

RESULT 3
US-10-360-053-22
; Sequence 22, Application US/10360053
; Publication No. US20030170230A1
; GENERAL INFORMATION:
; APPLICANT: Caterer, Nigel
; APPLICANT: Uttenenthal, Lars O
; APPLICANT: Nielsen, Rasmus W
; TITLE OF INVENTION: Compositions and Methods for Assembly and Stabilization of Antic
; TITLE OF INVENTION: Fragments via Antiparallel Heterogeneous Coiled-Coil Peptide Regi
; TITLE OF INVENTION: Thereof
; FILE REFERENCE: IMX-0028
; CURRENT APPLICATION NUMBER: US/10/360,053
; CURRENT FILING DATE: 2003-02-05
; PRIOR APPLICATION NUMBER: US60/354,376
; PRIOR FILING DATE: 2002-02-05
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 22
; LENGTH: 28
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic
US-10-360-053-22

Query Match 39.4%; Score 54; DB 14; Length 28;
Best Local Similarity 50.0%; Pred. No. 3.2;
Matches 12; Conservative 7; Mismatches 5; Indels 0; Gaps 0;

QY 1 KIRALKWNAHLKQETAALEQETAA 24
DB 5 KIAAIEEKIAQIEEIAAQEEKIA 28

RESULT 4
US-10-338-083-19
; Sequence 19, Application US/10338083
; Publication No. US20030166559A1
; GENERAL INFORMATION:
; APPLICANT: Desjarlais, John R.
; APPLICANT: Tansey, Malu Lourdes G.
; APPLICANT: Dahiyat, Basil I.
; TITLE OF INVENTION: Dominant Negative Proteins and Methods Thereof
; FILE REFERENCE: A-71273-2
; CURRENT APPLICATION NUMBER: US/10/338,083
; CURRENT FILING DATE: 2003-01-16
; PRIOR APPLICATION NUMBER: US 60/345,805
; PRIOR FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: US 60/373,453
; PRIOR FILING DATE: 2002-04-17
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 19
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: coiled-coil motif
US-10-611-399-19

Query Match 37.2%; Score 51; DB 16; Length 24;
Best Local Similarity 55.6%; Pred. No. 6.7;
Matches 10; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 10 AHLKQETAALEQETAALE 27
DB 1 AALESEVSALESEVASLE 18

RESULT 5
US-10-611-399-19
; Sequence 19, Application US/10611399
; Publication No. US20040170602A1
; GENERAL INFORMATION:
; APPLICANT: Desjarlais, John R.
; APPLICANT: Tansey, Malu Lourdes G.
; APPLICANT: Dahiyat, Basil I.
; TITLE OF INVENTION: DOMINANT NEGATIVE PROTEINS AND METHODS THEREOF
; FILE REFERENCE: A-71273-3
; CURRENT APPLICATION NUMBER: US/10/611,399
; CURRENT FILING DATE: 2003-07-01
; PRIOR APPLICATION NUMBER: US 10/338,083
; PRIOR FILING DATE: 2003-01-06
; PRIOR APPLICATION NUMBER: US 60/345,805
; PRIOR FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: US 60/373,453
; PRIOR FILING DATE: 2002-04-17
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 19
; LENGTH: 24
; TYPE: PRT
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: coiled-coil motif
US-10-611-399-19

Query Match 37.2%; Score 51; DB 16; Length 24;
Best Local Similarity 55.6%; Pred. No. 6.7;
Matches 10; Conservative 5; Mismatches 3; Indels 0; Gaps 0;

QY 10 AHLKQETAALEQETAALE 27
DB 1 AALESEVSALESEVASLE 18

RESULT 6
US-10-794-751-19
; Sequence 19, Application US/10794751
; Publication No. US20050048626A1
; GENERAL INFORMATION:
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Query Match 34.3%; Score 47; DB 9; Length 21;
Best Local Similarity 57.9%; Pred. No. 20;
Matches 11; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

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RESULT 9
US-10-007-805-534
; Sequence 534, Application US/10007805
; Publication No. US20020150581A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Hazlocker, Susan L.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Durham, Margarita
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C10
; CURRENT APPLICATION NUMBER: US/10/007,805
; CURRENT FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 593
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 534
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-007-805-534

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Query Match 34.3%; Score 47; DB 13; Length 21;
Best Local Similarity 57.9%; Pred. No. 20;
Matches 11; Conservative 3; Mismatches 5; Indels

Qy 9 NAHLKQEIAALEQEIAALE 27
| | | | | | | | :
Db 1 NCMLKKEIAMLKLEIATLK 19

RESULT 10
US-10-007-805-587
; Sequence 587, Application US/10007805

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; Publication No. US20020150581a1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqiu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Durham, Margarita
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C10
; CURRENT APPLICATION NUMBER: US/10/007,805
; CURRENT FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 593
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 587
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-007-805-587

Query Match      34.3%; Score 47; DB 13; Length 21;
Best Local Similarity 57.9%; Pred. No. 20;
Matches 11; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy      9 NAHLKQEIATALEQEIATALE 27
Db      1 NCMLKKEIATMLKLEIATLK 19

RESULT 11
US-10-076-622-534
; Sequence 534, Application US/10076622
; Publication No. US20030023036A1
; GENERAL INFORMATION:
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Sleath, Paul R.
; APPLICANT: Persing, David H.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C11
; CURRENT APPLICATION NUMBER: US/10/076,622
; CURRENT FILING DATE: 2002-02-13
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 534
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-076-622-534

Query Match      34.3%; Score 47; DB 14; Length 21;
Best Local Similarity 57.9%; Pred. No. 20;
Matches 11; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy      9 NAHLKQEIATALEQEIATALE 27
Db      1 NCMLKKEIATMLKLEIATLK 19

RESULT 12
US-10-076-622-587
; Sequence 587, Application US/10076622
; Publication No. US20030023036A1
; GENERAL INFORMATION:
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Sleath, Paul R.
; APPLICANT: Persing, David H.

```

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; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C11
; CURRENT APPLICATION NUMBER: US/10/076,622
; CURRENT FILING DATE: 2002-02-13
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 587
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-076-622-587

Query Match      34.3%; Score 47; DB 14; Length 21;
Best Local Similarity 57.9%; Pred. No. 20;
Matches 11; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy      9 NAHLKQEIATALEQEIATALE 27
Db      1 NCMLKKEIATMLKLEIATLK 19

RESULT 13
US-10-124-805-534
; Sequence 534, Application US/10124805
; Publication No. US20030166022A1
; GENERAL INFORMATION:
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Sleath, Paul R.
; APPLICANT: Persing, David H.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C12
; CURRENT APPLICATION NUMBER: US/10/124,805
; CURRENT FILING DATE: 2002-04-15
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 534
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-124-805-534

Query Match      34.3%; Score 47; DB 14; Length 21;
Best Local Similarity 57.9%; Pred. No. 20;
Matches 11; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

Qy      9 NAHLKQEIATALEQEIATALE 27
Db      1 NCMLKKEIATMLKLEIATLK 19

RESULT 14
US-10-124-805-587
; Sequence 587, Application US/10124805
; Publication No. US20030166022A1
; GENERAL INFORMATION:
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Sleath, Paul R.
; APPLICANT: Persing, David H.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
; FILE REFERENCE: 210121.470C12
; CURRENT APPLICATION NUMBER: US/10/124,805
; CURRENT FILING DATE: 2002-04-15
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 587
; LENGTH: 21
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-124-805-587

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Qy 9 NAHLKQEIAALEQEIAALE 27
| | | | | | | | | | :
Db 1 NCMLKKEIAMLKLEIATLK 19

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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/630,926
FILING DATE: 31-JUL-2003
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/403,861
FILING DATE: 11-FEB-2000
APPLICATION NUMBER: PCT/EP98/02490
FILING DATE: 27-APR-1998
APPLICATION NUMBER: EP 97107033.9
FILING DATE: 28-APR-1997
ATTORNEY/AGENT INFORMATION:

NAME: YUN, Allen C.
REGISTRATION NUMBER: 37,971
REFERENCE/DOCKET NUMBER: RICCARDI=1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-628-5197
TELEFAX: 202-737-3528

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1 INFORMATION FOR SEQ ID NO: 8:
2     SEQUENCE CHARACTERISTICS:
3         LENGTH: 26 amino acids
4         TYPE: amino acid
5         TOPOLOGY: linear
6     MOLECULE TYPE: peptide
7     SEQUENCE DESCRIPTION: SEQ ID NO: 8:
8     US-10-630-926-8

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Query Match 32.8%; Score 45; DB 16; Length 26;
Best Local Similarity 42.9%; Pred. No. 46;
Matches 9; Conservative 5; Mismatches 7; Indels 0; Gaps 0;

Qy

1 KIRALKWKNAHLKQEIALEQ 21
| : | | | | : | : :

db

4 KVEELLSKNYHLENEVARLKK 24

Search completed: April 27, 2005, 15:22:48
Job time : 90.5 secs

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